

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Match The Following

Question	Correct Answer	Your Answer
Political Risks	People Resistance	People Resistance
Financial Risks	ROI	Institution
Technical Risks	CAD / CAM	CAD / CAM
Functional Risks	HRD	HRD

Select The Blank

Question	Set of basic variables which are not restricted to equal '0' in current basic solution & listed in solution column is termed as _____.
Correct Answer	Basis
Your Answer	Simplex Method

Multiple Choice Single Answer

Question	In VAM, A stands for :-
Correct Answer	Approximation
Your Answer	Appropriate

Multiple Choice Single Answer

Question	Time spent by Service Facility to render the service to a Customer is :-
Correct Answer	Service time
Your Answer	Service time

True/False

Question	A game without a saddle point is called mixed strategy game.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	When an optimal solution is reached next step is to :-
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Correct Answer Mark a zero in a row with exclusive zero.

Your Answer Mark a zero in a row with exclusive zero.

Multiple Choice Multiple Answer

Question Terms relating to LP are :-

Correct Answer Constraints , Objective Function , Non-Negativity Condition

Your Answer Constraints , Objective Function , Non-Negativity Condition

Multiple Choice Single Answer

Question When process capability of a machine does not allow allocation of a particular job on the machine, the problem can be solved by :-

Correct Answer Prohibited assignment method

Your Answer Prohibited assignment method

True/False

Question Value of game to player II is negative of minimax value.

Correct Answer False

Your Answer False

Select The Blank

Question A Graph can be defined as _____.

Correct Answer Two-variable-linear-equation which is always a Straight Line

Your Answer Two-variable-linear-equation which is always a Straight Line

Multiple Choice Single Answer

Question Which of the following technique provides aid to sales staff while finalising a judgment forecast?

Correct Answer Forecasting

Your Answer Linear programming

True/False

Question Events must be mutually exclusive.

Correct Answer True

Your Answer True

Select The Blank

Question _____ is called Stepping Stone Method.

Correct Answer Unoccupied cells to achieve solution

Your Answer Unoccupied cells to achieve solution

Select The Blank

Question An assignment problem with machine capability constraint is an example of _____ assignment problem.

Correct Answer Prohibited

Your Answer Unbalanced

Multiple Choice Multiple Answer

Question Queues are formed at :-

Correct Answer Bus stand , Traffic lights , Telephone booths

Your Answer Bus stand , Traffic lights , Telephone booths

Select The Blank

Question To assign a task, a zero in a row/column with _____ zero is marked with square.

Correct Answer Exactly one

Your Answer Exactly one

True/False

Question The graphical method is simple to understand & easy to use

Correct Answer True

Your Answer True

Multiple Choice Single Answer

Question Unbounded Solution is :-

Correct Answer Permitted to be infinitely large

Your Answer Which does not define the boundaries of the feasible solution

Multiple Choice Multiple Answer

Question Procedural steps in VAM are :-

Correct Answer Selection of row or column , Allocation of number of units , Calculation of difference bet 2 element

Your Answer	Cash Flow & Fund flow statements , Selection of row or column
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Multiple Choice Multiple Answer

Question	Which are applications of quantitative techniques in financial management?
Correct Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans
Your Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans

Match The Following

Question	Correct Answer	Your Answer
Graphical Method Step 4	LPP Formulation	LPP Formulation
Graphical Method Step 1	Identify Decision Variables	Identify Decision Variables
Graphical Method Step 2	Equation of Objective Function	Graph Objective Function
Graphical Method Step 3	Equation of Constraints	Equation of Constraints

Multiple Choice Single Answer

Question	Extra row or column in tableau, with zero cost in each of its cells, used to balance an unbalanced problem is :-
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Select The Blank

Question	SOPs provide necessary base to select optimal solution is known as _____.
Correct Answer	Mechanistic Decisions
Your Answer	Mechanistic Decisions

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

Select The Blank

Question	The _____ is a method for deciding how to meet some desired objective which may be profit maximisation or cost minimization, subject to constraints on the amounts of commodities required or resources available.
Correct Answer	Linear programming
Your Answer	Linear programming

Select The Blank

Question	The _____ is concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement of action.
Correct Answer	Games theory
Your Answer	Games theory

True/False

Question	Smallest element in each row is subtracted from each element in the column.
Correct Answer	False
Your Answer	False

Multiple Choice Multiple Answer

Question	Which are the typical areas of application of probability theory?
Correct Answer	Market research , Inventory control , Price movements
Your Answer	Market research , Budgeting

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False
Your Answer	False

Multiple Choice Single Answer

Question	Determination of Least Cost Route of Transportation of Goods from one plant to different warehouses is called :-
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Correct Answer	Transportation Model
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Your Answer	Transportation Model
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Multiple Choice Multiple Answer

Question	Games theory can solve :-
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Correct Answer	Two person's game , Two persons zero sum game , Two persons 3 x 3 game
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Your Answer	Two person's game , Two persons zero sum game , Two persons 3 x 3 game
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Multiple Choice Single Answer

Question	Which technique replaces the age old intuitive and subjective approach of decision making by an analytical and an objective approach?
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Correct Answer	Quantitative technique
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Your Answer	Quantitative technique
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True/False

Question	MODI Method is to evaluate water cells to achieve an optimal solution.
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Correct Answer	True
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Your Answer	True
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Multiple Choice Multiple Answer

Question	Terminology NOT related with Linear Programming are :-
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Correct Answer	Players , Payoff , Payoff Matrics
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Your Answer	Players , Payoff , Payoff Matrics
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Multiple Choice Multiple Answer

Question	Study of Process Capability is not related to :-
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Correct Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis
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Your Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis
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True/False

Question	Under Single Queue, Multiple Servers (Series), there is one queue but several servers in the service facility.
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Correct Answer	True
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Your Answer	True
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Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Queue length

True/False

Question	Quantitative techniques consider tangible as well as intangible factors.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Which of the following is not a statistical technique?
Correct Answer	Critical path analysis
Your Answer	Acceptance sampling

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x n

Multiple Choice Multiple Answer

Question	Game can have :-
Correct Answer	Mixed strategies , Pure strategies
Your Answer	Mixed strategies , Pure strategies

Select The Blank

Question	Graphical method is used to solve problems involving _____ unknowns.
Correct Answer	Two
Your Answer	Two

Multiple Choice Multiple Answer

Question	Various Quantitative Techniques are :-
----------	--

Correct Answer Linear Programming , Replacement Theory , Queuing Theory

Your Answer Linear Programming , Replacement Theory , Queuing Theory

True/False

Question Representation of customer behavior is reactions of the typical customers when confronted with a queue before the service facility.

Correct Answer True

Your Answer False

Select The Blank

Question Expected gain to a player, if he and his opponent use their best strategy is called _____ of game.

Correct Answer Value

Your Answer Value

Multiple Choice Multiple Answer

Question Following concepts are not considered in Linear Programming :-

Correct Answer Maximum , Minimax , Saddle Point

Your Answer Saddle Point , Non-negativity Restrictions

concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Select The Blank

Question	To assign a task, a zero in a row/column with _____ zero is marked with square.
Correct Answer	Exactly one
Your Answer	Exactly one

Select The Blank

Question	Transportation Tableau gives _____.
Correct Answer	Data on shipping costs
Your Answer	Data on shipping costs

True/False

Question	In a traveling salesman problem, salesman can visit same city twice before all the cities are covered.
Correct Answer	False
Your Answer	False

Select The Blank

Question	The _____ are the points from which decision alternatives emerges branches of the tree.
Correct Answer	Decision modes
Your Answer	Decision modes

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
Correct Answer	Problem Formulation
Your Answer	Problem Formulation

Multiple Choice Single Answer

Question	Which technique replaces the age old intuitive and subjective approach of decision making by an analytical and an objective approach?
Correct Answer	Quantitative technique
Your Answer	Quantitative technique

Multiple Choice Multiple Answer

Question	Which are applications of quantitative techniques in financial management?
Correct Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans
Your Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans

Select The Blank

Question	Value of pure strategy game, to player I is _____
Correct Answer	Maximin
Your Answer	Maximin

Multiple Choice Multiple Answer

Question	Combination of strategies of players determines :-
Correct Answer	Outcomes , Payoff
Your Answer	Outcomes , Payoff

Multiple Choice Multiple Answer

Question	Types of variables in Simplex Method are :-
Correct Answer	Slack Variable , Surplus Variable , Artificial Variable
Your Answer	Slack Variable , Surplus Variable , Artificial Variable

Multiple Choice Multiple Answer

Question	Elements of Transportation Model are :-
Correct Answer	Plants , Warehouses , Supply & Demand
Your Answer	Plants , Warehouses

True/False

Question	In pure strategies game, maximin / minimax strategies are called optional strategies.
Correct Answer	True
Your Answer	False

True/False

Question	Feasible solution must have $(m+n-1)$ allocations.
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Correct Answer True

Your Answer False

Multiple Choice Multiple Answer

Question Transportation Tableau is a Data on :-

Correct Answer Demand , Capacity , Unit Shipping Cost

Your Answer Demand , Capacity , Unit Shipping Cost

Multiple Choice Single Answer

Question Disadvantage of Graphical Method is :-

Correct Answer Restricted to two variables

Your Answer Restricted to two variables

Multiple Choice Multiple Answer

Question What is expected to be established when facts are analysed after collection of data in the decision making process?

Correct Answer Qualitative considerations to take overall view of business , The length of time to which the decision should apply , Effect of decision on other functional areas

Your Answer Qualitative considerations to take overall view of business , The length of time to which the decision should apply , To check the authenticity of facts

Multiple Choice Multiple Answer

Question Study of Comparable past events & forecasting future events is related to

Correct Answer Probability Theory , Correlation & Regression Analysis , Statistical Process Control

Your Answer Probability Theory

Multiple Choice Single Answer

Question When there are restrictions to assignment of a task to particular facility :-

Correct Answer Very high costs are assigned to prohibited combinations

Your Answer A dummy row/column with zero costs is added

True/False

Question The decision nodes are depicted by circles.

Correct Answer False

Your Answer	False
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Select The Blank

Question	Expected gain to a player, if he and & his opponent use their best strategy is called _____ of game.
Correct Answer	Value
Your Answer	Value

Match The Following

Question	Correct Answer	Your Answer
Queuing theory	Waiting lines formed in offices and factories	Waiting lines formed in offices and factories
Line of balance	WIP inventory control	WIP inventory control
Critical path analysis	Project scheduling	Project scheduling
Decision theory	Site selection	Site selection

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

Multiple Choice Single Answer

Question	Which of the following is example of personal decision?
Correct Answer	Works manager's decision to quit his post
Your Answer	Works manager's decision to quit his post

True/False

Question	Though graphical method can deal with any number of a constraints but since each constraint is shown as a line on a graph, a large number of lines make the graph difficult to read.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Decision of a player to play row corresponding to maximin value is called :-
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Correct Answer Maximin Pure strategy

Your Answer Maximin Pure strategy

Multiple Choice Single Answer

Question Optimal Solution is :-

Correct Answer That point or points in the feasible region that gives the optimal values of the objective function

Your Answer That point or points in the feasible region that gives the optimal values of the objective function

Multiple Choice Multiple Answer

Question Today's Business has constraints like :-

Correct Answer Raw Material , Shortage of Production , Limitations of Warehouses

Your Answer Raw Material , Shortage of Production , Limitations of Warehouses

True/False

Question Transportation tableau construction is to present the information in the form of transportation tableau.

Correct Answer True

Your Answer True

Select The Blank

Question Transportation problem in which total capacity at supply points equals total demand at the destinations is _____

Correct Answer Un-balanced Transportation Problem

Your Answer Balanced Transportation Problem

Multiple Choice Single Answer

Question Solution satisfying supply & demand conditions & yet may not be optimal is :-

Correct Answer An Initial Feasible Solution

Your Answer An Initial Feasible Solution

Multiple Choice Single Answer

Question If P_{ij} represent element in each column, than minimax value of game is :-

Correct Answer $\min(\max p_{ij})$

Your Answer $\min P_{ij}$

Multiple Choice Multiple Answer

Question	Resource Management involves :-
Correct Answer	Man , Machines , Materials
Your Answer	Man , Machines , Materials

Select The Blank

Question	The _____ are those in which the outcome of the first decision affects the desirability of the choices at the next decision.
Correct Answer	Multi stage decisions
Your Answer	Analytical decisions

True/False

Question	If a mixed strategy game is bigger than 2x2 size, dominance rule is used to reduce the game.
Correct Answer	True
Your Answer	True

Select The Blank

Question	LP decide on product quantities to maximize profit is _____.
Correct Answer	Product Mix Problems
Your Answer	Product Mix Problems

Match The Following

Question	Correct Answer	Your Answer
Shortest Route for Salesman	Traveling Problem	Traveling Problem
Order Quantity Allocation	Production Problem	Production Problem
Number of Employees	Staffing Problem	Staffing Problem
Aircraft & Crews	Routing Problem	Routing Problem

Multiple Choice Single Answer

Question	When an optimal solution is reached next step is to :-
Correct Answer	Mark a zero in a row with exclusive zero.
Your Answer	Mark a zero in a row with exclusive zero.

Multiple Choice Multiple Answer

Question	Procedural steps in LCM are :-
Correct Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column
Your Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column

True/False

Question	System output refers to the rate at which customers are rendered service.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative minimax

Multiple Choice Multiple Answer

Question	Words related to VAM are :-
Correct Answer	Vogel's , Method , Approximation
Your Answer	Vogel's , Method , Approximation

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Multiple Answer

Question	Various Types of Problems related to Linear Programming are
Correct Answer	Routing Problems , Transportation Problems , Product Mix Problems
Your Answer	Routing Problems , Transportation Problems , Product Mix Problems

True/False

Question	Mechanistic decisions involve problems with limited number of decision variables.
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Correct Answer	True
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Your Answer	True
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True/False

Question	Minimax vale of the game sets upper limit to the value of the game.
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Correct Answer	True
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Your Answer	True
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Multiple Choice Single Answer

Question	Which of the decision theory model indicates the situations where consequences of each act of decision maker are influenced by acts of opponent?
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Correct Answer	Competitive strategies
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Your Answer	Competitive strategies
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Select The Blank

Question	Pair of values (x,y) of decision variables that satisfy constraints is _____
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Correct Answer	Feasible Solution
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Your Answer	Feasible Solution
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LIST OF ATTEMPTED QUESTIONS AND ANSWERS

True/False

Question	Divisibility means that the variables are restricted to integer values.
Correct Answer	False
Your Answer	False

True/False

Question	Every constraint in a LP problem defines a certain portion of the boundary of the solution region.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	In pure strategy game :-
Correct Answer	Players stay with one strategy , Probability of pure strategy is
Your Answer	Players stay with one strategy

Multiple Choice Single Answer

Question	Systematic procedure evaluating water cells to achieve an optimal solution :-
Correct Answer	MODI Method
Your Answer	MODI Method

Select The Blank

Question	_____ is the last step of Graphical Method of LP.
Correct Answer	Calculate the total profit / loss
Your Answer	Calculate the total profit / loss

Multiple Choice Single Answer

Question	An Objective Function represents :-
Correct Answer	The mathematical equation of the major goal of the system in terms of unknown called decision variables
Your Answer	The mathematical equation of the major goal of the system in terms of unknown called decision variables

Multiple Choice Single Answer

Question	Determination of Least Cost Route of Transportation of Goods from one plant to different warehouses is called :-
Correct Answer	Transportation Model
Your Answer	Transportation Model

True/False

Question	To construct a pay off matrix the decision alternatives are placed column head wise.
Correct Answer	False
Your Answer	True

True/False

Question	Minimax vale of the game sets upper limit to the value of the game.
Correct Answer	True
Your Answer	True

Select The Blank

Question	_____ is a systematic procedure to evaluate unoccupied cells for optimal solution.
Correct Answer	Stepping Stone Method
Your Answer	Stepping Stone Method

Multiple Choice Multiple Answer

Question	Which of the following can be considered as a general rules for data collection in the decision making process?
Correct Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded
Your Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded

Multiple Choice Multiple Answer

Question	Terms related to NWCM are :-
Correct Answer	Initial feasible solution , Allocation of units , Upper left hand corner

Your Answer	Initial feasible solution , Allocation of units , Upper left hand corner
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Select The Blank

Question	The _____ is a method for deciding how to meet some desired objective which may be profit maximisation or cost minimization, subject to constraints on the amounts of commodities required or resources available.
Correct Answer	Linear programming
Your Answer	Linear programming

Multiple Choice Single Answer

Question	Which of the following is not a statistical technique?
Correct Answer	Critical path analysis
Your Answer	Critical path analysis

Multiple Choice Multiple Answer

Question	What is the application of quantitative techniques in maintenance management?
Correct Answer	To decide optimum stocking policies of spares , Predict useful life of parts , To decide optimum replacement policy of parts
Your Answer	To decide optimum stocking policies of spares , Predict useful life of parts , To decide optimum replacement policy of parts

Multiple Choice Multiple Answer

Question	Procedural steps in VAM are :-
Correct Answer	Calculation of difference bet 2 element , Selection of row or column , Allocation of number of units
Your Answer	Calculation of difference bet 2 element , Selection of row or column , Allocation of number of units

Multiple Choice Single Answer

Question	In NWCM, M stands for :-
Correct Answer	Method
Your Answer	Method

Multiple Choice Single Answer

Question	The column with the largest negative index number is :-
Correct Answer	Key Column
Your Answer	Key Column

Select The Blank

Question	A row with lower elements is called _____ row.
Correct Answer	Dominated
Your Answer	Minor

True/False

Question	Row with the smallest of the replacement ratios of the constraint rows is Key Row.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Which are the typical areas of application of forecasting?
Correct Answer	Materials control , Loading and scheduling , Budgeting
Your Answer	Materials control , Budgeting

Multiple Choice Multiple Answer

Question	Terms related to Stepping Stone Method are :-
Correct Answer	Systematic procedure , Unoccupied Cells , Optimal Solution
Your Answer	Systematic procedure , Unoccupied Cells , Optimal Solution

Multiple Choice Multiple Answer

Question	Resource Management involves :-
Correct Answer	Man , Machines , Materials
Your Answer	Man , Machines , Materials

Select The Blank

Question	Transportation Tableau gives _____.
Correct Answer	Data on shipping costs
Your Answer	Data on shipping costs

Select The Blank

Question	In VAM, _____ is long form of A.
Correct Answer	Approximation

Your Answer	Approximation
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Select The Blank

Question	A game in which there are two competing parties is called _____ game.
Correct Answer	2 person
Your Answer	2 person

Multiple Choice Single Answer

Question	The element at the intersection of key row & key column is :-
Correct Answer	Key element
Your Answer	Intersecting element

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
Correct Answer	Linear programming , Sequencing model , Breakeven analysis
Your Answer	Linear programming , Sequencing model , Breakeven analysis

Match The Following

Question	Correct Answer	Your Answer
Feasible Region	Defined by Constraints	Defined by Constraints
Corner Points	Points of Intersection	Points of Intersection
Feasible Solution	Satisfy Constraints	Satisfy Constraints
Optimal solution	Optimal Clause of Objective	Optimal Clause of Objective

Select The Blank

Question	A mixed strategy 2 x 2 game is solved by _____ method.
Correct Answer	Algebraic
Your Answer	Sub game

Select The Blank

Question	Set of basic variables which are not restricted to equal '0' in current basic solution & listed in solution column is termed as _____.
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Correct Answer	Basis
Your Answer	Simplex Tableau

True/False

Question	In a maximization problem, each element is subtracted from largest element in the matrix and problem is solved as a minimization problem.
Correct Answer	True
Your Answer	True

Match The Following

Question	Correct Answer	Your Answer
Optimal Solution	Optimizing Objective Function	Optimizing Objective Function
Decision Variable	Unknown to be Determined	Unknown to be Determined
Constraints	Mathematical Equation of Limitation	Mathematical Equation of Limitation
Objective Function	Mathematical Equation of Major Goals	Mathematical Equation of Major Goals

Multiple Choice Single Answer

Question	What is MODI Method?
Correct Answer	A systematic procedure for evaluating unoccupied (water) cells to achieve an optimal solution
Your Answer	A systematic procedure for evaluating unoccupied (water) cells to achieve an optimal solution

Multiple Choice Single Answer

Question	Un-balanced Transportation Problem is :-
Correct Answer	Transportation problem in which total capacity at supply point doesn't equal the total demand at the destinations
Your Answer	Transportation problem in which total capacity at supply point doesn't equal the total demand at the destinations

Multiple Choice Single Answer

Question	Linear Programming develop a work schedule to meet staff needs at all hours with minimum number of employees is called as :-
Correct Answer	Staffing Problems
Your Answer	Staffing Problems

Multiple Choice Single Answer

Question	An extra variable added to obtain an initial feasible solution to a Linear Programming problem is called :-
Correct Answer	Artificial Variable
Your Answer	Slack Variable

True/False

Question	Quantitative techniques are usually associated with high costs.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Basic assumption in a play are :-
Correct Answer	Choice of strategy by players is simultaneous , No player knows choice of his opponent
Your Answer	Strategies are always pure , Choice of strategy by players is simultaneous , Strategies are always mixed

Multiple Choice Multiple Answer

Question	Game can have :-
Correct Answer	Mixed strategies , Pure strategies
Your Answer	Mixed strategies , Pure strategies

Multiple Choice Single Answer

Question	Which technique replaces the age old intuitive and subjective approach of decision making by an analytical and an objective approach?
Correct Answer	Quantitative technique
Your Answer	Programming technique

Select The Blank

Question	The _____ is concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement of action.
Correct Answer	Games theory
Your Answer	Games theory

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
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Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
Correct Answer	Algorithm , Iteration , Slack variable
Your Answer	Algorithm , Iteration , Slack variable

True/False

Question	System output refers to the rate at which customers are rendered service.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Feasible Solution is :-
Correct Answer	Pair of Values (x,y) of the decision variables that satisfy constraints
Your Answer	Constraints & non-negative restrictions of the Linear Programming problem

True/False

Question	Allocations are independent when it is not possible to alter any individual allocations.
Correct Answer	True
Your Answer	True

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Multiple Answer

Question	Queues are formed at :-
Correct Answer	Telephone booths , Bus stand , Traffic lights
Your Answer	Bus stand , Traffic lights , Telephone booths

Multiple Choice Multiple Answer

Question	Specification of the constraints are :-
Correct Answer	Vendors , Available Hours , Space
Your Answer	Vendors , Space , Materials

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative maximin

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

Multiple Choice Single Answer

Question	Assignment technique is useful in a situation where :-
Correct Answer	Certain number of tasks are required to be attached to equal number of facilities
Your Answer	Certain number of tasks are required to be assigned to one facility

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Mean arrival rate

Select The Blank

Question	Identify decision variables is _____ step of Graphical Method.
----------	--

Correct Answer	First
Your Answer	First

True/False

Question	If a Linear Programming problem has no solution that satisfies all constraints, it is said to be feasible.
Correct Answer	True
Your Answer	False

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Saddle point occurs when :-
Correct Answer	Maximin = Minimax
Your Answer	Maximin > Minimax

Multiple Choice Single Answer

Question	Decision Variables are :-
Correct Answer	The unknowns to be determined from the solution to the model
Your Answer	The unknowns to be determined from the solution to the model

Multiple Choice Single Answer

Question	Graphical method can deal with :-
Correct Answer	Any number of constraints
Your Answer	Two constraints

Multiple Choice Multiple Answer

Question	Nomenclatures related to Transportation Problem are :-
Correct Answer	S , P , W
Your Answer	S , P , W

Multiple Choice Multiple Answer

Question	In solution of an assignment problem a row with zero costs is added and all the elements are multiplied by - 1, then the problem is of nature :-
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Correct Answer	Unbalance assignment. , Maximization.
Your Answer	Prohibited assignments , Unbalance assignment. , Maximization.

Select The Blank

Question	A_____ is a graphic device to depict the sequence of decision to be made and the possible events that may occur.
Correct Answer	Decision tree
Your Answer	Decision tree

Select The Blank

Question	Terminology for Service Distribution is _____
Correct Answer	FCFS or LCFS
Your Answer	FIFO or LIFO

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

True/False

Question	Compute row & column values for stone squares is step for MODI method.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False

Your Answer	True
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Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
----------	--

Correct Answer	Algorithm , Iteration , Slack variable
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Your Answer	Algorithm , Minimax , Iteration
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Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
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Correct Answer	Problem Formulation
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Your Answer	Problem Formulation
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Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
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Correct Answer	Linear programming , Sequencing model , Breakeven analysis
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Your Answer	Linear programming , Sequencing model , Breakeven analysis
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Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the top management as a policy?
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Correct Answer	Policy decisions
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Your Answer	Policy decisions
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LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Multiple Answer

Question	Queues are formed at :-
----------	-------------------------

Correct Answer	Telephone booths , Bus stand , Traffic lights
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Your Answer	Telephone booths , Bus stand , Traffic lights
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Multiple Choice Multiple Answer

Question	Specification of the constraints are :-
----------	---

Correct Answer	Vendors , Available Hours , Space
----------------	-----------------------------------

Your Answer	Vendors , Space , Materials
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Multiple Choice Single Answer

Question	Which of the following is an example of a policy decision?
Correct Answer	Increment and promotion policy
Your Answer	Increment and promotion policy

Multiple Choice Multiple Answer

Question	Basic assumption in a play are :-
Correct Answer	Choice of strategy by players is simultaneous , No player knows choice of his opponent
Your Answer	Strategies are always pure , Choice of strategy by players is simultaneous , Strategies are always mixed

True/False

Question	A 2x2 mixed strategy game is solved by algebraic method.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	When number of tasks and number of facilities are not equal :-
Correct Answer	Some tasks may remain unassigned. , Some facilities may remain idle.
Your Answer	Some tasks may remain unassigned. , Some facilities may remain idle.

Multiple Choice Single Answer

Question	A row in the simplex table whose elements represent the decrease in the value of the objective function if one unit of jth variables is brought into the solution is :-
Correct Answer	Z_j row
Your Answer	$(Z_j - C_j)$ row (or index row)

Select The Blank

Question	_____ is an extra row or column in a tableau.
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Multiple Answer

Question	Which of the following are examples of tactical decisions?
Correct Answer	Loading and scheduling of jobs , Acceptance or rejection of excess quantity against delivery schedule , Splitting of raw material requirement among suppliers
Your Answer	Loading and scheduling of jobs , Acceptance or rejection of excess quantity against delivery schedule , Launching of a new product

True/False

Question	Adaptive decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	True

Select The Blank

Question	Positive non-zero values variables are called _____.
Correct Answer	Basic Variables
Your Answer	Basic Variables

Multiple Choice Multiple Answer

Question	Terminology NOT related with Linear Programming are :-
Correct Answer	Players , Payoff , Payoff Matrics
Your Answer	Objective Function

True/False

Question	Traffic intensity is product of average arrival rate & average service rate.
Correct Answer	False
Your Answer	True

Select The Blank

Question	Constraint not affecting the feasible solution is _____.
Correct Answer	Redundant Constraint
Your Answer	Redundant Constraint

Multiple Choice Single Answer

Question	Solution satisfying supply & demand conditions & yet may not be optimal is :-
Correct Answer	An Initial Feasible Solution
Your Answer	An Initial Feasible Solution

True/False

Question	Value of the subgame related to highest point in the feasible region is solution for $2 \times n$ game.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	The slack variables must take :-
Correct Answer	Positive Values
Your Answer	Both Values

Multiple Choice Multiple Answer

Question	Study of Process Capability is not related to :-
Correct Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis
Your Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis

Match The Following

Question	Correct Answer	Your Answer
Intersecting element is	The element at the intersection of other than key row & key column	The element at the intersection of key row & key column
Key Column is	The column with the largest negative index number	Row at the intersection of key row & key column
Key row is	The row with the smallest of the replacement ratios of the constraint rows	The row with the smallest of the replacement ratios of the constraint rows
Key element is	The element at the intersection of key row & key column	The element at the intersection of other than key row & key column

Multiple Choice Multiple Answer

Question	Which of the following are examples of basic decisions?
Correct Answer	Product mix , Plant location , Organisation structure
Your Answer	Decision on loan application by an employee , Plant location , Organisation structure

Select The Blank

Question	SOPs provide necessary base to select optimal solution is known as _____.
Correct Answer	Mechanistic Decisions
Your Answer	Analytical Decisions

Match The Following

Question	Correct Answer	Your Answer
Feasible Region	Defined by Constraints	Optimal Clause of Objective

Corner Points	Points of Intersection	Satisfy Constraints
Feasible Solution	Satisfy Constraints	Defined by Constraints
Optimal solution	Optimal Clause of Objective	Upper Limit

True/False

Question	LP problem cannot be solved by graphical or by simplex method.
Correct Answer	False
Your Answer	False

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative maximin

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

Multiple Choice Single Answer

Question	Assignment technique is useful in a situation where :-
Correct Answer	Certain number of tasks are required to be attached to equal number of facilities
Your Answer	Certain number of tasks are required to be assigned to one facility

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Mean arrival rate

Select The Blank

Question	Identify decision variables is _____ step of Graphical Method.
Correct Answer	First
Your Answer	First

True/False

Question	If a Linear Programming problem has no solution that satisfies all constraints, it is said to be feasible.
Correct Answer	True
Your Answer	False

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Saddle point occurs when :-
Correct Answer	Maximin = Minimax
Your Answer	Maximin > Minimax

Multiple Choice Single Answer

Question	Decision Variables are :-
Correct Answer	The unknowns to be determined from the solution to the model
Your Answer	The unknowns to be determined from the solution to the model

Multiple Choice Single Answer

Question	Graphical method can deal with :-
Correct Answer	Any number of constraints
Your Answer	Two constraints

Multiple Choice Multiple Answer

Question	Nomenclatures related to Transportation Problem are :-
Correct Answer	S , P , W
Your Answer	S , P , W

Multiple Choice Multiple Answer

Question	In solution of an assignment problem a row with zero costs is added and all the elements are multiplied by - 1, then the problem is of nature :-
Correct Answer	Unbalance assignment. , Maximization.
Your Answer	Prohibited assignments , Unbalance assignment. , Maximization.

Select The Blank

Question	A _____ is a graphic device to depict the sequence of decision to be made and the possible events that may occur.
Correct Answer	Decision tree
Your Answer	Decision tree

Select The Blank

Question	Terminology for Service Distribution is _____
Correct Answer	FCFS or LCFS
Your Answer	FIFO or LIFO

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

True/False

Question	Compute row & column values for stone squares is step for MODI method.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
----------	--

Correct Answer	Algorithm , Iteration , Slack variable
Your Answer	Algorithm , Minimax , Iteration

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
Correct Answer	Problem Formulation
Your Answer	Problem Formulation

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
Correct Answer	Linear programming , Sequencing model , Breakeven analysis
Your Answer	Linear programming , Sequencing model , Breakeven analysis

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the top management as a policy?
Correct Answer	Policy decisions
Your Answer	Policy decisions

Select The Blank

Question	The _____ represents consequences of the interactions of the decision alternatives and the chance events.
Correct Answer	Outcomes
Your Answer	Outcomes

####

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Select The Blank

Question	Decision Making under Conflict is termed as _____
Correct Answer	Competitive Strategies
Your Answer	Competitive Strategies

Select The Blank

Question	When both the players play their optimal strategies the resulting payoff is called _____ of game.
Correct Answer	Value
Your Answer	Maximin

Multiple Choice Multiple Answer

Question	Nomenclatures not related to Transportation Problem are :-
Correct Answer	S, P, L, D , S, P, W, M , T, P, W, D
Your Answer	S, P, L, D , S, P, W, M , T, P, W, D

True/False

Question	Analytical decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	True

True/False

Question	Service time can be either fixed & balanced layouts or it can be variable.
Correct Answer	True
Your Answer	True

Select The Blank

Question	LP decide on product quantities to maximize profit is _____.
Correct Answer	Product Mix Problems
Your Answer	Transportation Problems

True/False

Question	The graphical method is simple to understand & easy to use
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Point of intersection of pure strategies is called :-
Correct Answer	Value , Saddle point
Your Answer	Payoff , Value , Optimal strategy

True/False

Question	Sensitivity analysis can be illustrated easily by drawing the graph of the changes
Correct Answer	True
Your Answer	True

Match The Following

Question	Correct Answer	Your Answer
Political Risks	People Resistance	Institution
Financial Risks	ROI	CAD / CAM
Technical Risks	CAD / CAM	People Resistance
Functional Risks	HRD	ROI

Select The Blank

Question	In North West Corner Method, the _____ is handled
Correct Answer	Procedure of allocating units to cells
Your Answer	Satisfies supply & demand conditions

Multiple Choice Single Answer

Question	Linear Programming deciding on product quantities to maximize profit is called :-
Correct Answer	Product Mix Problems
Your Answer	Product Mix Problems

Select The Blank

Question	A row with higher elements is called _____ row.
Correct Answer	Dominating
Your Answer	Major

Select The Blank

Question	Number of customers in the queue plus those being serviced is _____.
Correct Answer	System Length
Your Answer	Queue length

Multiple Choice Multiple Answer

Question	In an assignment problem a machine is not capable of performing a job & number machines are one less than number of jobs, then the problem is :-
Correct Answer	Unbalanced assignment problem. , Prohibited assignment problem. , Minimization problem.
Your Answer	Maximization problems. , Unbalanced assignment problem. , Prohibited assignment problem.

True/False

Question	A game in which algebraic sum of gains of both the players after the play is not zero is called two person non zero sum
----------	---

	game.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Graphical method of Linear Programming is useful when a Linear Programming problem involves :-
Correct Answer	Two Variables
Your Answer	Two Variables

True/False

Question	Surplus variable is a variable used to convert a Less than or equal to constraint into equality by subtracting it from left hand side of the constraint.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Terms related to NWCM are :-
Correct Answer	Initial feasible solution , Allocation of units , Upper left hand corner
Your Answer	Initial feasible solution , Allocation of units , Upper left hand corner , Materials Distribution

True/False

Question	When number of minimum lines drawn covering all zero elements are less than number of columns/rows, more than one optimal solution exist.
Correct Answer	False
Your Answer	True

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x 2

Multiple Choice Multiple Answer

Question	Information to study an input process is :-
Correct Answer	Arrival distribution , Inter-arrival distribution , Mean arrival rate
Your Answer	Arrival distribution , Finance , Inter-arrival distribution

Multiple Choice Multiple Answer

Question	Which of the following can be considered as a general rules for data collection in the decision making process?
Correct Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded
Your Answer	The information should be subjected to checks and cross checks , Only organised and related facts should be collected , The information must be collected from the most reliable source

Select The Blank

Question	The _____ is concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement of action.
Correct Answer	Games theory
Your Answer	Games theory

Multiple Choice Multiple Answer

Question	Combination of strategies of players determines :-
Correct Answer	Outcomes , Payoff
Your Answer	Outcomes , Minimax , Saddle point

True/False

Question	Decision alternatives must not be mutually exclusive.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Value of a game having saddle point equals :-
Correct Answer	Saddle point
Your Answer	Saddle point

Multiple Choice Multiple Answer

Question	Pure strategies are also called :-
Correct Answer	Minimax pure strategy , Maximin pure strategy , Optimal strategies
Your Answer	Minimax pure strategy , Maximin pure strategy , Mixed strategy

Match The Following

Question	Correct Answer	Your Answer
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Sem-4 (Operations) -- Quantitative Techniques

Transportation Tableau	Data on shipping costs	Data on shipping costs
Transportation Problem	Transportation of goods or services	Supply points equals total demand
Balanced Transportation Problem	Supply points equals total demand	Mechanism of Operation
Un-balanced Transportation Problem	Supply points does not equal demand	Transportation of goods or services

Multiple Choice Multiple Answer

Question	Special cases on simplex method are :-
Correct Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution
Your Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution

Multiple Choice Single Answer

Question	Linear Programming develop a work schedule to meet staff needs at all hours with minimum number of employees is called as :-
Correct Answer	Staffing Problems
Your Answer	Staffing Problems

True/False

Question	A 2x2 mixed strategy game is solved by 1 mere programming.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Various Quantitative Techniques are :-
Correct Answer	Linear Programming , Replacement Theory , Queuing Theory
Your Answer	Linear Programming , Replacement Theory , Queuing Theory

True/False

Question	Static decisions are essentially not a one time decisions.
Correct Answer	False
Your Answer	True

Select The Blank

Question	_____ is called Stepping Stone Method.
Correct Answer	Unoccupied cells to achieve solution

Your Answer	Avoidance of high penalty & high-cost
-------------	---------------------------------------

Select The Blank

Question	Decision Making under Un-certainty is called as _____.
----------	--

Correct Answer	Uncertain Situations
----------------	----------------------

Your Answer	Stochastic Model
-------------	------------------

Multiple Choice Single Answer

Question	Which of the decision theory model indicates the situations where consequences of each act of decision maker are influenced by acts of opponent?
----------	--

Correct Answer	Competitive strategies
----------------	------------------------

Your Answer	Deterministic models
-------------	----------------------

Multiple Choice Single Answer

Question	Time spent by Service Facility to render the service to a Customer is :-
----------	--

Correct Answer	Service time
----------------	--------------

Your Answer	Service time
-------------	--------------

Multiple Choice Single Answer

Question	In pure strategy game, strategies of players are represented by row and maximin is 4. There value and game is :-
----------	--

Correct Answer	4
----------------	---

Your Answer	-4
-------------	----

Multiple Choice Multiple Answer

Question	Words related to NWCM are :-
----------	------------------------------

Correct Answer	North , Corner , West
----------------	-----------------------

Your Answer	North , Corner , West , Mechanism
-------------	-----------------------------------

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
----------	---

Correct Answer	Iteration
----------------	-----------

Your Answer	Iteration
-------------	-----------

Multiple Choice Single Answer

Question	In a pure strategy game, probability of selection of his optimal strategy by a player is :-
----------	---

Correct Answer	1
----------------	---

Your Answer Zero

Multiple Choice Single Answer

Question Linear Programming is one of the most popular techniques of :-

Correct Answer Operation Research

Your Answer Operation Research

Multiple Choice Multiple Answer

Question Terms relating to LP are :-

Correct Answer Constraints , Objective Function , Non-Negativity Condition

Your Answer Constraints , Objective Function , Non-Negativity Condition

Multiple Choice Single Answer

Question What do you mean by the decisions taken by the lower levels of management as an outcome of policy decision?

Correct Answer Operating decision

Your Answer Personal decision

Multiple Choice Single Answer

Question Study of Comparable Past Events & Forecasting Future Events is :-

Correct Answer Probability Theory

Your Answer Probability Theory

Select The Blank

Question A game in which there are two competing parties is called _____ game.

Correct Answer 2 person

Your Answer 2 x 3

####

Match The Following

Question	Correct Answer	Your Answer
Least Cost Method	Procedure of allocating units to cost	Satisfies supply & demand conditions
Dummy source or Destination	Extra row or column in a tableau	Extra row or column in a tableau
An Initial Feasible Solution	Satisfies supply & demand conditions	Mechanism of Operation
North West Corner Method	Procedure of allocating units to cells	Procedure of allocating units to cost

Select The Blank

Question	Brown's algorithm is used to solve _____ 2 persons zero game sum.
Correct Answer	m x n
Your Answer	m x n

Match The Following

Question	Correct Answer	Your Answer
MODI Method	Water cells to achieve solution	Water cells to achieve solution
Vogel's Approximation Method (VAM)	Avoidance of high penalty & high-cost	Avoidance of high penalty & high-cost
Degeneracy	Occupied cells are less than (m+n-1)	Occupied cells are less than (m+n-1)
Stepping Stone Method	Unoccupied cells to achieve solution	Unoccupied cells to achieve solution

True/False

Question	Smallest element in each row is subtracted from each element in the column.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Terminologies of Graphical Method are :-
Correct Answer	Constraints , Graph of linear equality/inequality , Half Space
Your Answer	Constraints , Graph of linear equality/inequality , Half Space , Payoff

Multiple Choice Single Answer

Question	Feasible Region is :-
Correct Answer	Region defined by the Constraints & non-negative restrictions
Your Answer	Region defined by the Constraints & non-negative restrictions

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

True/False

Question	Allocations are independent when it is not possible to alter any individual allocations.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Participants of the game are :-
Correct Answer	Players , Decision maker
Your Answer	Players , Decision maker , Payoffs , Elements

True/False

Question	A game in which algebraic sum of gains of both the players after the play is not zero is called two person non zero sum game.
Correct Answer	True
Your Answer	True

Select The Blank

Question	A mixed strategy 2 x 2 game is solved by _____method.
Correct Answer	Algebraic
Your Answer	Linear programming

True/False

Question	Infeasibility is the condition in which the Linear Programming problem permits no feasible combination of the decision variables.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Every combination of strategies of players determines an outcomes called :-
Correct Answer	Pay off
Your Answer	Pay off

True/False

Question	Value of game to player II is negative of minimax value.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	In a standard minimization problem, objective is to :-
----------	--

Correct Answer Minimize total time. , Minimize total cost.

Your Answer Minimize total time. , Minimize total cost. , Find alternative optimal solution. , Allocate each task to each facility.

Multiple Choice Multiple Answer

Question Objects too can form queues as :-

Correct Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground

Your Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground , Finance

Select The Blank

Question The _____ is a method for deciding how to meet some desired objective which may be profit maximisation or cost minimization, subject to constraints on the amounts of commodities required or resources available.

Correct Answer Linear programming

Your Answer Linear programming

Multiple Choice Multiple Answer

Question Feasible solution formula contains :-

Correct Answer $m, n, 1, m, n, 3, n, 1, x$

Your Answer $m, n, 1, m, n, 3, n, 1, x, m, 1, p$

Select The Blank

Question Team approach needs for optimal solution of _____ Decisions.

Correct Answer Adaptive

Your Answer Adaptive

Multiple Choice Single Answer

Question Transportation Tableau is :-

Correct Answer Tabular arrangement of data on demand, capacity & per unit shipping costs bet. supply point to destination

Your Answer Tabular arrangement of data on demand, capacity & per unit shipping costs bet. supply point to destination

Multiple Choice Multiple Answer

Question Which of the following elements are used to construct the pay off matrix?

Correct Answer Pay off , strategies , Probabilities

Your Answer Pay off , strategies , Decision tree , Probabilities

Multiple Choice Multiple Answer

Question	Resource Management involves
Correct Answer	Man , Machines , Materials
Your Answer	Man , Machines , Materials , Work Orders

Multiple Choice Single Answer

Question	Last Step of Graphical Method of LP is :-
Correct Answer	Calculate the total profit / loss
Your Answer	Calculate the total profit / loss

True/False

Question	Effective improvement over the initial feasible solution is included in MODI.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x 2

True/False

Question	Surplus variable is a variable used to convert a Less than or equal to constraint into equality by subtracting it from left hand side of the constraint.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Extra row or column in tableau, with zero cost in each of its cells, used to balance an unbalanced problem is :-
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Multiple Answer

Question	Games theory can solve :-
Correct Answer	Two person's game , Two persons zero sum game , Two persons 3 x 3 game
Your Answer	Two person's game , N Person's game , Two persons zero sum game , Two persons 3 x 3 game

True/False

Question	Resulting payoff of optional strategies is called outcome.
Correct Answer	False
Your Answer	True

Select The Blank

Question	A row with higher elements is called _____ row.
Correct Answer	Dominating
Your Answer	Major

Select The Blank

Question	Constraint not affecting the feasible solution is _____.
Correct Answer	Redundant Constraint
Your Answer	Redundant Constraint

True/False

Question	Value of the subgame related to highest point in the feasible region is solution for $2 \times n$ game.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Special cases on simplex method are :-
Correct Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution
Your Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution , Payoffs

Select The Blank

Question	The _____ represents consequences of the interactions of the decision alternatives and the chance events.
Correct Answer	Outcomes
Your Answer	Outcomes

Select The Blank

Question	Number of customers in the queue plus those being serviced is _____.
Correct Answer	System Length
Your Answer	System Length

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
Correct Answer	Iteration
Your Answer	Iteration

Multiple Choice Multiple Answer

Question	Terms related to LCM are :-
Correct Answer	Initial feasible solution , Lowest Cost Cells , Next Lowest & so on
Your Answer	Initial feasible solution , Lowest Cost Cells , Next Lowest & so on , Finance Distribution

Multiple Choice Multiple Answer

Question	Value of game equals :-
Correct Answer	Saddle points , Weighted average of possible outcomes
Your Answer	Saddle points , Weighted average of possible outcomes , Zero , Value of any sum game

Multiple Choice Single Answer

Question	Expected gain to a player if he and his opponent use their best strategies is known as :-
Correct Answer	Value of game
Your Answer	Optimal strategy

Multiple Choice Multiple Answer

Question	Procedural steps in LCM are :-
Correct Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column
Your Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column , Prepare a Methodological report

Multiple Choice Single Answer

Question	A mixed strategy is decision of player to select :-
Correct Answer	Different strategies
Your Answer	Different strategies

Select The Blank

Question	Comparable Past Event & Forecasting Future Events Study is called _____
Correct Answer	Probability Theory
Your Answer	Probability Theory

Multiple Choice Single Answer

Question	Vogel's Approximation Method (VAM) is :-
Correct Answer	A systematic procedure to obtain an initial feasible solution based on avoidance of high penalty & cost cell
Your Answer	A systematic procedure to obtain an initial feasible solution based on avoidance of high penalty & cost cell

Multiple Choice Single Answer

Question	There are more than one optimal solutions to an assignment problem when :-
Correct Answer	Number of independent zeros are more than required ones.
Your Answer	Number of minimum lines covering all zeros are more than number of rows/columns

Multiple Choice Single Answer

Question	In an unbalanced assignment problem :-
Correct Answer	One or more facilities remain idle.
Your Answer	One or more facilities remain idle.

Multiple Choice Single Answer

Question	The column with the largest negative index number is :-
Correct Answer	Key Column
Your Answer	Key Column

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Match The Following

Question	Correct Answer	Your Answer
Political Risks	People Resistance	People Resistance
Financial Risks	ROI	Institution
Technical Risks	CAD / CAM	CAD / CAM
Functional Risks	HRD	HRD

Select The Blank

Question	Set of basic variables which are not restricted to equal '0' in current basic solution & listed in solution column is termed as _____.
Correct Answer	Basis
Your Answer	Simplex Method

Multiple Choice Single Answer

Question	In VAM, A stands for :-
Correct Answer	Approximation
Your Answer	Appropriate

Multiple Choice Single Answer

Question	Time spent by Service Facility to render the service to a Customer is :-
Correct Answer	Service time
Your Answer	Service time

True/False

Question	A game without a saddle point is called mixed strategy game.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	When an optimal solution is reached next step is to :-
----------	--

Correct Answer Mark a zero in a row with exclusive zero.

Your Answer Mark a zero in a row with exclusive zero.

Multiple Choice Multiple Answer

Question Terms relating to LP are :-

Correct Answer Constraints , Objective Function , Non-Negativity Condition

Your Answer Constraints , Objective Function , Non-Negativity Condition

Multiple Choice Single Answer

Question When process capability of a machine does not allow allocation of a particular job on the machine, the problem can be solved by :-

Correct Answer Prohibited assignment method

Your Answer Prohibited assignment method

True/False

Question Value of game to player II is negative of minimax value.

Correct Answer False

Your Answer False

Select The Blank

Question A Graph can be defined as _____.

Correct Answer Two-variable-linear-equation which is always a Straight Line

Your Answer Two-variable-linear-equation which is always a Straight Line

Multiple Choice Single Answer

Question Which of the following technique provides aid to sales staff while finalising a judgment forecast?

Correct Answer Forecasting

Your Answer Linear programming

True/False

Question Events must be mutually exclusive.

Correct Answer True

Your Answer True

Select The Blank

Question _____ is called Stepping Stone Method.

Correct Answer Unoccupied cells to achieve solution

Your Answer Unoccupied cells to achieve solution

Select The Blank

Question An assignment problem with machine capability constraint is an example of _____ assignment problem.

Correct Answer Prohibited

Your Answer Unbalanced

Multiple Choice Multiple Answer

Question Queues are formed at :-

Correct Answer Bus stand , Traffic lights , Telephone booths

Your Answer Bus stand , Traffic lights , Telephone booths

Select The Blank

Question To assign a task, a zero in a row/column with _____ zero is marked with square.

Correct Answer Exactly one

Your Answer Exactly one

True/False

Question The graphical method is simple to understand & easy to use

Correct Answer True

Your Answer True

Multiple Choice Single Answer

Question Unbounded Solution is :-

Correct Answer Permitted to be infinitely large

Your Answer Which does not define the boundaries of the feasible solution

Multiple Choice Multiple Answer

Question Procedural steps in VAM are :-

Correct Answer Selection of row or column , Allocation of number of units , Calculation of difference bet 2 element

Your Answer	Cash Flow & Fund flow statements , Selection of row or column
-------------	---

Multiple Choice Multiple Answer

Question	Which are applications of quantitative techniques in financial management?
Correct Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans
Your Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans

Match The Following

Question	Correct Answer	Your Answer
Graphical Method Step 4	LPP Formulation	LPP Formulation
Graphical Method Step 1	Identify Decision Variables	Identify Decision Variables
Graphical Method Step 2	Equation of Objective Function	Graph Objective Function
Graphical Method Step 3	Equation of Constraints	Equation of Constraints

Multiple Choice Single Answer

Question	Extra row or column in tableau, with zero cost in each of its cells, used to balance an unbalanced problem is :-
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Select The Blank

Question	SOPs provide necessary base to select optimal solution is known as _____.
Correct Answer	Mechanistic Decisions
Your Answer	Mechanistic Decisions

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

Select The Blank

Question	The _____ is a method for deciding how to meet some desired objective which may be profit maximisation or cost minimization, subject to constraints on the amounts of commodities required or resources available.
Correct Answer	Linear programming
Your Answer	Linear programming

Select The Blank

Question	The _____ is concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement of action.
Correct Answer	Games theory
Your Answer	Games theory

True/False

Question	Smallest element in each row is subtracted from each element in the column.
Correct Answer	False
Your Answer	False

Multiple Choice Multiple Answer

Question	Which are the typical areas of application of probability theory?
Correct Answer	Market research , Inventory control , Price movements
Your Answer	Market research , Budgeting

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False
Your Answer	False

Multiple Choice Single Answer

Question	Determination of Least Cost Route of Transportation of Goods from one plant to different warehouses is called :-
----------	--

Correct Answer	Transportation Model
----------------	----------------------

Your Answer	Transportation Model
-------------	----------------------

Multiple Choice Multiple Answer

Question	Games theory can solve :-
----------	---------------------------

Correct Answer	Two person's game , Two persons zero sum game , Two persons 3 x 3 game
----------------	--

Your Answer	Two person's game , Two persons zero sum game , Two persons 3 x 3 game
-------------	--

Multiple Choice Single Answer

Question	Which technique replaces the age old intuitive and subjective approach of decision making by an analytical and an objective approach?
----------	---

Correct Answer	Quantitative technique
----------------	------------------------

Your Answer	Quantitative technique
-------------	------------------------

True/False

Question	MODI Method is to evaluate water cells to achieve an optimal solution.
----------	--

Correct Answer	True
----------------	------

Your Answer	True
-------------	------

Multiple Choice Multiple Answer

Question	Terminology NOT related with Linear Programming are :-
----------	--

Correct Answer	Players , Payoff , Payoff Matrics
----------------	-----------------------------------

Your Answer	Players , Payoff , Payoff Matrics
-------------	-----------------------------------

Multiple Choice Multiple Answer

Question	Study of Process Capability is not related to :-
----------	--

Correct Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis
----------------	---

Your Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis
-------------	---

True/False

Question	Under Single Queue, Multiple Servers (Series), there is one queue but several servers in the service facility.
----------	--

Correct Answer	True
----------------	------

Your Answer	True
-------------	------

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Queue length

True/False

Question	Quantitative techniques consider tangible as well as intangible factors.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Which of the following is not a statistical technique?
Correct Answer	Critical path analysis
Your Answer	Acceptance sampling

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x n

Multiple Choice Multiple Answer

Question	Game can have :-
Correct Answer	Mixed strategies , Pure strategies
Your Answer	Mixed strategies , Pure strategies

Select The Blank

Question	Graphical method is used to solve problems involving _____ unknowns.
Correct Answer	Two
Your Answer	Two

Multiple Choice Multiple Answer

Question	Various Quantitative Techniques are :-
----------	--

Correct Answer	Linear Programming , Replacement Theory , Queuing Theory
----------------	--

Your Answer	Linear Programming , Replacement Theory , Queuing Theory
-------------	--

True/False

Question	Representation of customer behavior is reactions of the typical customers when confronted with a queue before the service facility.
----------	---

Correct Answer	True
----------------	------

Your Answer	False
-------------	-------

Select The Blank

Question	Expected gain to a player, if he and & his opponent use their best strategy is called _____ of game.
----------	--

Correct Answer	Value
----------------	-------

Your Answer	Value
-------------	-------

Multiple Choice Multiple Answer

Question	Following concepts are not considered in Linear Programming :-
----------	--

Correct Answer	Maximum , Minimax , Saddle Point
----------------	----------------------------------

Your Answer	Saddle Point , Non-negativity Restrictions
-------------	--

concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Select The Blank

Question	To assign a task, a zero in a row/column with _____ zero is marked with square.
Correct Answer	Exactly one
Your Answer	Exactly one

Select The Blank

Question	Transportation Tableau gives _____.
Correct Answer	Data on shipping costs
Your Answer	Data on shipping costs

True/False

Question	In a traveling salesman problem, salesman can visit same city twice before all the cities are covered.
Correct Answer	False
Your Answer	False

Select The Blank

Question	The _____ are the points from which decision alternatives emerges branches of the tree.
Correct Answer	Decision modes
Your Answer	Decision modes

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
Correct Answer	Problem Formulation
Your Answer	Problem Formulation

Multiple Choice Single Answer

Question	Which technique replaces the age old intuitive and subjective approach of decision making by an analytical and an objective approach?
Correct Answer	Quantitative technique
Your Answer	Quantitative technique

Multiple Choice Multiple Answer

Question	Which are applications of quantitative techniques in financial management?
Correct Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans
Your Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans

Select The Blank

Question	Value of pure strategy game, to player I is
Correct Answer	Maximin
Your Answer	Maximin

Multiple Choice Multiple Answer

Question	Combination of strategies of players determines :-
Correct Answer	Outcomes , Payoff
Your Answer	Outcomes , Payoff

Multiple Choice Multiple Answer

Question	Types of variables in Simplex Method are :-
Correct Answer	Slack Variable , Surplus Variable , Artificial Variable
Your Answer	Slack Variable , Surplus Variable , Artificial Variable

Multiple Choice Multiple Answer

Question	Elements of Transportation Model are :-
Correct Answer	Plants , Warehouses , Supply & Demand
Your Answer	Plants , Warehouses

True/False

Question	In pure strategies game, maximin / minimax strategies are called optional strategies.
Correct Answer	True
Your Answer	False

True/False

Question	Feasible solution must have $(m+n-1)$ allocations.
----------	--

Correct Answer True

Your Answer False

Multiple Choice Multiple Answer

Question Transportation Tableau is a Data on :-

Correct Answer Demand , Capacity , Unit Shipping Cost

Your Answer Demand , Capacity , Unit Shipping Cost

Multiple Choice Single Answer

Question Disadvantage of Graphical Method is :-

Correct Answer Restricted to two variables

Your Answer Restricted to two variables

Multiple Choice Multiple Answer

Question What is expected to be established when facts are analysed after collection of data in the decision making process?

Correct Answer Qualitative considerations to take overall view of business , The length of time to which the decision should apply , Effect of decision on other functional areas

Your Answer Qualitative considerations to take overall view of business , The length of time to which the decision should apply , To check the authenticity of facts

Multiple Choice Multiple Answer

Question Study of Comparable past events & forecasting future events is related to

Correct Answer Probability Theory , Correlation & Regression Analysis , Statistical Process Control

Your Answer Probability Theory

Multiple Choice Single Answer

Question When there are restrictions to assignment of a task to particular facility :-

Correct Answer Very high costs are assigned to prohibited combinations

Your Answer A dummy row/column with zero costs is added

True/False

Question The decision nodes are depicted by circles.

Correct Answer False

Your Answer False

Select The Blank

Question Expected gain to a player, if he and & his opponent use their best strategy is called _____ of game.

Correct Answer Value

Your Answer Value

Match The Following

Question	Correct Answer	Your Answer
Queuing theory	Waiting lines formed in offices and factories	Waiting lines formed in offices and factories
Line of balance	WIP inventory control	WIP inventory control
Critical path analysis	Project scheduling	Project scheduling
Decision theory	Site selection	Site selection

Select The Blank

Question The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____

Correct Answer Collusion

Your Answer Collusion

Multiple Choice Single Answer

Question Which of the following is example of personal decision?

Correct Answer Works manager's decision to quit his post

Your Answer Works manager's decision to quit his post

True/False

Question Though graphical method can deal with any number of a constraints but since each constraint is shown as a line on a graph, a large number of lines make the graph difficult to read.

Correct Answer True

Your Answer True

Multiple Choice Single Answer

Question Decision of a player to play row corresponding to maximin value is called :-

Correct Answer Maximin Pure strategy

Your Answer Maximin Pure strategy

Multiple Choice Single Answer

Question Optimal Solution is :-

Correct Answer That point or points in the feasible region that gives the optimal values of the objective function

Your Answer That point or points in the feasible region that gives the optimal values of the objective function

Multiple Choice Multiple Answer

Question Today's Business has constraints like :-

Correct Answer Raw Material , Shortage of Production , Limitations of Warehouses

Your Answer Raw Material , Shortage of Production , Limitations of Warehouses

True/False

Question Transportation tableau construction is to present the information in the form of transportation tableau.

Correct Answer True

Your Answer True

Select The Blank

Question Transportation problem in which total capacity at supply points equals total demand at the destinations is _____

Correct Answer Un-balanced Transportation Problem

Your Answer Balanced Transportation Problem

Multiple Choice Single Answer

Question Solution satisfying supply & demand conditions & yet may not be optimal is :-

Correct Answer An Initial Feasible Solution

Your Answer An Initial Feasible Solution

Multiple Choice Single Answer

Question If P_{ij} represent element in each column, than minimax value of game is :-

Correct Answer $\min(\max p_{ij})$

Your Answer $\min P_{ij}$

Multiple Choice Multiple Answer

Question	Resource Management involves :-
Correct Answer	Man , Machines , Materials
Your Answer	Man , Machines , Materials

Select The Blank

Question	The _____ are those in which the outcome of the first decision affects the desirability of the choices at the next decision.
Correct Answer	Multi stage decisions
Your Answer	Analytical decisions

True/False

Question	If a mixed strategy game is bigger than 2x2 size, dominance rule is used to reduce the game.
Correct Answer	True
Your Answer	True

Select The Blank

Question	LP decide on product quantities to maximize profit is _____.
Correct Answer	Product Mix Problems
Your Answer	Product Mix Problems

Match The Following

Question	Correct Answer	Your Answer
Shortest Route for Salesman	Traveling Problem	Traveling Problem
Order Quantity Allocation	Production Problem	Production Problem
Number of Employees	Staffing Problem	Staffing Problem
Aircraft & Crews	Routing Problem	Routing Problem

Multiple Choice Single Answer

Question	When an optimal solution is reached next step is to :-
Correct Answer	Mark a zero in a row with exclusive zero.
Your Answer	Mark a zero in a row with exclusive zero.

Multiple Choice Multiple Answer

Question	Procedural steps in LCM are :-
Correct Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column
Your Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column

True/False

Question	System output refers to the rate at which customers are rendered service.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative minimax

Multiple Choice Multiple Answer

Question	Words related to VAM are :-
Correct Answer	Vogel's , Method , Approximation
Your Answer	Vogel's , Method , Approximation

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Multiple Answer

Question	Various Types of Problems related to Linear Programming are
Correct Answer	Routing Problems , Transportation Problems , Product Mix Problems
Your Answer	Routing Problems , Transportation Problems , Product Mix Problems

True/False

Question	Mechanistic decisions involve problems with limited number of decision variables.
----------	---

Correct Answer True

Your Answer True

True/False

Question Minimax value of the game sets upper limit to the value of the game.

Correct Answer True

Your Answer True

Multiple Choice Single Answer

Question Which of the decision theory model indicates the situations where consequences of each act of decision maker are influenced by acts of opponent?

Correct Answer Competitive strategies

Your Answer Competitive strategies

Select The Blank

Question Pair of values (x,y) of decision variables that satisfy constraints is _____

Correct Answer Feasible Solution

Your Answer Feasible Solution

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Match The Following

Question	Correct Answer	Your Answer
Least Cost Method	Procedure of allocating units to cost	Procedure of allocating units to cost
Dummy source or Destination	Extra row or column in a tableau	Extra row or column in a tableau
An Initial Feasible Solution	Satisfies supply & demand conditions	Satisfies supply & demand conditions
North West Corner Method	Procedure of allocating units to cells	Procedure of allocating units to cells

Multiple Choice Multiple Answer

Question	Value of the pure strategy game is :-
Correct Answer	Maximin for player I , Negative minimax for player II
Your Answer	Maximin for player I , Minimax for player I , Minimax for player II

True/False

Question	Constraint that does not affect the feasible solution is Redundant.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Materials Management involves :-
Correct Answer	Stores , Warehouses , Transportation
Your Answer	Stores , Warehouses , Transportation

True/False

Question	Graphical method is restricted to two variables.
Correct Answer	True
Your Answer	False

Multiple Choice Single Answer

Question	Study of Comparable Past Events & Forecasting Future Events is :-
----------	---

Correct Answer Probability Theory

Your Answer Probability Theory

Select The Blank

Question To assign a task, a zero in a row/column with _____ zero is marked with square.

Correct Answer Exactly one

Your Answer Exactly one

Multiple Choice Single Answer

Question The column with the largest negative index number is :-

Correct Answer Key Column

Your Answer Key Column

Multiple Choice Single Answer

Question Decision of a player to play row corresponding to maximin value is called :-

Correct Answer Maximin Pure strategy

Your Answer Pure strategy

Multiple Choice Single Answer

Question In NWCM, N stands for :-

Correct Answer North

Your Answer North

Multiple Choice Multiple Answer

Question Terms relating to LP are :-

Correct Answer Constraints , Objective Function , Non-Negativity Condition

Your Answer Constraints , Objective Function , Non-Negativity Condition

True/False

Question Decision alternatives must not be mutually exclusive.

Correct Answer False

Your Answer False

Multiple Choice Multiple Answer

Question	Various Terms involved in Simplex Method are :-
Correct Answer	Key Element , Key Row , Key Column
Your Answer	Key Element , Key Row , Key Column

True/False

Question	When number of minimum lines drawn covering all zero elements are less than number of columns/rows, more than one optimal solution exist.
Correct Answer	False
Your Answer	False

True/False

Question	Resulting payoff of optional strategies is called outcome.
Correct Answer	False
Your Answer	False

Select The Blank

Question	Cash flows & determining Optimal investment proposal is _____
Correct Answer	Investment Theory
Your Answer	Allocation Model

Select The Blank

Question	LP is most popular techniques of _____.
Correct Answer	Operation Research
Your Answer	Operation Research

True/False

Question	Though graphical method can deal with any number of a constraints but since each constraint is shown as a line on a graph, a large number of lines make the graph difficult to read.
Correct Answer	True
Your Answer	False

Match The Following

Question	Correct Answer	Your Answer
----------	----------------	-------------

Graphical Method Step 4	LPP Formulation	Calculate Profit/Cost
Graphical Method Step 1	Identify Decision Variables	Equation of Objective Function
Graphical Method Step 2	Equation of Objective Function	LPP Formulation
Graphical Method Step 3	Equation of Constraints	Graph Objective Function

Multiple Choice Single Answer

Question	If a mixed strategy game is and $2 \times n$ size then the first step to solve the game is to:-
Correct Answer	Reduce game by dominance rule
Your Answer	Look for saddle point

Multiple Choice Multiple Answer

Question	Saddle points equals to :-
Correct Answer	Assigning task to facility , Maximin
Your Answer	Assigning task to facility , Zero , Maximin

Select The Blank

Question	Comparable Past Event & Forecasting Future Events Study is called _____
Correct Answer	Probability Theory
Your Answer	Probability Theory

Select The Blank

Question	Initial Feasible solution must have _____ allocations.
Correct Answer	$(m+n-1)$
Your Answer	$(n-m-1)$

Multiple Choice Multiple Answer

Question	Nomenclatures not related to Transportation Problem are :-
Correct Answer	T, P, W, D , S, P, L, D , S, P, W, M
Your Answer	S, P, L, D , S, P, W, M , T, P, W, D

True/False

Question	Traffic intensity is product of average arrival rate & average service rate.
----------	--

Correct Answer False

Your Answer False

Select The Blank

Question Dummy source has _____ cost.

Correct Answer Zero

Your Answer Zero

Multiple Choice Single Answer

Question Infeasible Solution :-

Correct Answer No solution satisfies all constraints

Your Answer No solution satisfies all constraints

Multiple Choice Multiple Answer

Question LP can be used to solve the problems of :-

Correct Answer Production , Materials , Marketing

Your Answer Production , Materials , Marketing

Multiple Choice Single Answer

Question What is MODI Method?

Correct Answer A systematic procedure for evaluating unoccupied (water) cells to achieve an optimal solution

Your Answer A systematic procedure for evaluating unoccupied (water) cells to achieve an optimal solution

Select The Blank

Question Minimax value sets _____ limit on game.

Correct Answer Upper

Your Answer Optimal

True/False

Question Analytical decisions involve problems with limited number of decision variables.

Correct Answer False

Your Answer False

Select The Blank

Question Positive non-zero values variables are called _____.

Correct Answer Basic Variables

Your Answer Basic Variables

True/False

Question Extra variable added to obtain an initial feasible solution to a LP problem is Artificial Variable.

Correct Answer True

Your Answer True

True/False

Question Adaptive decisions involve problems with limited number of decision variables.

Correct Answer False

Your Answer False

Select The Blank

Question Team approach needs for optimal solution of _____ Decisions.

Correct Answer Adaptive

Your Answer Adaptive

Select The Blank

Question ISO-9001 QMS is for _____.

Correct Answer Quality System

Your Answer Quality System

Multiple Choice Multiple Answer

Question In pure strategy game value is equal to :-

Correct Answer Saddle point , Maximin , Minimax

Your Answer Weighted average of possible outcome , Saddle point , Maximin

Multiple Choice Multiple Answer

Question Game can have :-

Correct Answer Mixed strategies , Pure strategies

Your Answer	Mixed strategies , Pure strategies , Single strategy
-------------	--

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
----------	---

Correct Answer	Iteration
----------------	-----------

Your Answer	Iteration
-------------	-----------

Multiple Choice Single Answer

Question	Graphical method can deal with how many constraints?
----------	--

Correct Answer	Any number
----------------	------------

Your Answer	Any number
-------------	------------

Multiple Choice Multiple Answer

Question	Terms related to NWCM are :-
----------	------------------------------

Correct Answer	Initial feasible solution , Allocation of units , Upper left hand corner
----------------	--

Your Answer	Initial feasible solution , Allocation of units , Upper left hand corner
-------------	--

Multiple Choice Multiple Answer

Question	Objects too can form queues as :-
----------	-----------------------------------

Correct Answer	Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground
----------------	---

Your Answer	Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground
-------------	---

Multiple Choice Single Answer

Question	A systematic procedure for evaluating unoccupied cells for optimal solution is :-
----------	---

Correct Answer	Stepping Stone Method
----------------	-----------------------

Your Answer	Stepping Stone Method
-------------	-----------------------

Multiple Choice Multiple Answer

Question	Pure strategies art also called :-
----------	------------------------------------

Correct Answer	Minimax pure strategy , Maximin pure strategy , Optimal strategies
----------------	--

Your Answer	Minimax pure strategy , Maximin pure strategy , Optimal strategies
-------------	--

Select The Blank

Question	Unbounded Solution is one which is _____.
Correct Answer	Permitted to be infinitely large
Your Answer	Which does not define the boundaries of the feasible solution

Multiple Choice Single Answer

Question	Redundant Constraint is :-
Correct Answer	Which does not define the boundaries of the feasible solution
Your Answer	Point that gives same optimal value

Multiple Choice Single Answer

Question	A Graph is :-
Correct Answer	Two-variable-linear-equation is always a Straight Line
Your Answer	Two-variable-linear-equation is always a Straight Line

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LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Multiple Answer

Question	Queues are formed at :-
Correct Answer	Telephone booths , Bus stand , Traffic lights
Your Answer	Bus stand , Traffic lights , Telephone booths

Multiple Choice Multiple Answer

Question	Specification of the constraints are :-
Correct Answer	Vendors , Available Hours , Space
Your Answer	Vendors , Space , Materials

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative maximin

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

Multiple Choice Single Answer

Question	Assignment technique is useful in a situation where :-
Correct Answer	Certain number of tasks are required to be attached to equal number of facilities
Your Answer	Certain number of tasks are required to be assigned to one facility

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Mean arrival rate

Select The Blank

Question	Identify decision variables is _____ step of Graphical Method.
----------	--

Correct Answer	First
----------------	-------

Your Answer	First
-------------	-------

True/False

Question	If a Linear Programming problem has no solution that satisfies all constraints, it is said to be feasible.
----------	--

Correct Answer	True
----------------	------

Your Answer	False
-------------	-------

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
----------	---

Correct Answer	True
----------------	------

Your Answer	True
-------------	------

Multiple Choice Single Answer

Question	Saddle point occurs when :-
----------	-----------------------------

Correct Answer	Maximin = Minimax
----------------	-------------------

Your Answer	Maximin > Minimax
-------------	-------------------

Multiple Choice Single Answer

Question	Decision Variables are :-
----------	---------------------------

Correct Answer	The unknowns to be determined from the solution to the model
----------------	--

Your Answer	The unknowns to be determined from the solution to the model
-------------	--

Multiple Choice Single Answer

Question	Graphical method can deal with :-
----------	-----------------------------------

Correct Answer	Any number of constraints
----------------	---------------------------

Your Answer	Two constraints
-------------	-----------------

Multiple Choice Multiple Answer

Question	Nomenclatures related to Transportation Problem are :-
----------	--

Correct Answer	S , P , W
----------------	-----------

Your Answer	S , P , W
-------------	-----------

Multiple Choice Multiple Answer

Question	In solution of an assignment problem a row with zero costs is added and all the elements are multiplied by - 1, then the problem is of nature :-
----------	--

Correct Answer	Unbalance assignment. , Maximization.
Your Answer	Prohibited assignments , Unbalance assignment. , Maximization.

Select The Blank

Question	A_____ is a graphic device to depict the sequence of decision to be made and the possible events that may occur.
Correct Answer	Decision tree
Your Answer	Decision tree

Select The Blank

Question	Terminology for Service Distribution is _____
Correct Answer	FCFS or LCFS
Your Answer	FIFO or LIFO

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

True/False

Question	Compute row & column values for stone squares is step for MODI method.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False

Your Answer	True
-------------	------

Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
----------	--

Correct Answer	Algorithm , Iteration , Slack variable
----------------	--

Your Answer	Algorithm , Minimax , Iteration
-------------	---------------------------------

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
----------	--

Correct Answer	Problem Formulation
----------------	---------------------

Your Answer	Problem Formulation
-------------	---------------------

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
----------	---

Correct Answer	Linear programming , Sequencing model , Breakeven analysis
----------------	--

Your Answer	Linear programming , Sequencing model , Breakeven analysis
-------------	--

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the top management as a policy?
----------	--

Correct Answer	Policy decisions
----------------	------------------

Your Answer	Policy decisions
-------------	------------------

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Multiple Answer

Question	Queues are formed at :-
----------	-------------------------

Correct Answer	Telephone booths , Bus stand , Traffic lights
----------------	---

Your Answer	Telephone booths , Bus stand , Traffic lights
-------------	---

Multiple Choice Multiple Answer

Question	Specification of the constraints are :-
----------	---

Correct Answer	Vendors , Available Hours , Space
----------------	-----------------------------------

Your Answer	Vendors , Space , Materials
-------------	-----------------------------

Multiple Choice Single Answer

Question	Which of the following is an example of a policy decision?
Correct Answer	Increment and promotion policy
Your Answer	Increment and promotion policy

Multiple Choice Multiple Answer

Question	Basic assumption in a play are :-
Correct Answer	Choice of strategy by players is simultaneous , No player knows choice of his opponent
Your Answer	Strategies are always pure , Choice of strategy by players is simultaneous , Strategies are always mixed

True/False

Question	A 2x2 mixed strategy game is solved by algebraic method.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	When number of tasks and number of facilities are not equal :-
Correct Answer	Some tasks may remain unassigned. , Some facilities may remain idle.
Your Answer	Some tasks may remain unassigned. , Some facilities may remain idle.

Multiple Choice Single Answer

Question	A row in the simplex table whose elements represent the decrease in the value of the objective function if one unit of jth variables is brought into the solution is :-
Correct Answer	Z_j row
Your Answer	$(Z_j - C_j)$ row (or index row)

Select The Blank

Question	_____ is an extra row or column in a tableau.
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Multiple Answer

Question	Which of the following are examples of tactical decisions?
Correct Answer	Loading and scheduling of jobs , Acceptance or rejection of excess quantity against delivery schedule , Splitting of raw material requirement among suppliers
Your Answer	Loading and scheduling of jobs , Acceptance or rejection of excess quantity against delivery schedule , Launching of a new product

True/False

Question	Adaptive decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	True

Select The Blank

Question	Positive non-zero values variables are called _____.
Correct Answer	Basic Variables
Your Answer	Basic Variables

Multiple Choice Multiple Answer

Question	Terminology NOT related with Linear Programming are :-
Correct Answer	Players , Payoff , Payoff Matrics
Your Answer	Objective Function

True/False

Question	Traffic intensity is product of average arrival rate & average service rate.
Correct Answer	False
Your Answer	True

Select The Blank

Question	Constraint not affecting the feasible solution is _____.
Correct Answer	Redundant Constraint
Your Answer	Redundant Constraint

Multiple Choice Single Answer

Question	Solution satisfying supply & demand conditions & yet may not be optimal is :-
Correct Answer	An Initial Feasible Solution
Your Answer	An Initial Feasible Solution

True/False

Question	Value of the subgame related to highest point in the feasible region is solution for $2 \times n$ game.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	The slack variables must take :-
Correct Answer	Positive Values
Your Answer	Both Values

Multiple Choice Multiple Answer

Question	Study of Process Capability is not related to :-
Correct Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis
Your Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis

Match The Following

Question	Correct Answer	Your Answer
Intersecting element is	The element at the intersection of other than key row & key column	The element at the intersection of key row & key column
Key Column is	The column with the largest negative index number	Row at the intersection of key row & key column
Key row is	The row with the smallest of the replacement ratios of the constraint rows	The row with the smallest of the replacement ratios of the constraint rows
Key element is	The element at the intersection of key row & key column	The element at the intersection of other than key row & key column

Multiple Choice Multiple Answer

Question	Which of the following are examples of basic decisions?
Correct Answer	Product mix , Plant location , Organisation structure
Your Answer	Decision on loan application by an employee , Plant location , Organisation structure

Select The Blank

Question	SOPs provide necessary base to select optimal solution is known as _____.
Correct Answer	Mechanistic Decisions
Your Answer	Analytical Decisions

Match The Following

Question	Correct Answer	Your Answer
Feasible Region	Defined by Constraints	Optimal Clause of Objective

Corner Points	Points of Intersection	Satisfy Constraints
Feasible Solution	Satisfy Constraints	Defined by Constraints
Optimal solution	Optimal Clause of Objective	Upper Limit

True/False

Question	LP problem cannot be solved by graphical or by simplex method.
Correct Answer	False
Your Answer	False

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative maximin

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

Multiple Choice Single Answer

Question	Assignment technique is useful in a situation where :-
Correct Answer	Certain number of tasks are required to be attached to equal number of facilities
Your Answer	Certain number of tasks are required to be assigned to one facility

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Mean arrival rate

Select The Blank

Question	Identify decision variables is _____ step of Graphical Method.
Correct Answer	First
Your Answer	First

True/False

Question	If a Linear Programming problem has no solution that satisfies all constraints, it is said to be feasible.
Correct Answer	True
Your Answer	False

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Saddle point occurs when :-
Correct Answer	Maximin = Minimax
Your Answer	Maximin > Minimax

Multiple Choice Single Answer

Question	Decision Variables are :-
Correct Answer	The unknowns to be determined from the solution to the model
Your Answer	The unknowns to be determined from the solution to the model

Multiple Choice Single Answer

Question	Graphical method can deal with :-
Correct Answer	Any number of constraints
Your Answer	Two constraints

Multiple Choice Multiple Answer

Question	Nomenclatures related to Transportation Problem are :-
Correct Answer	S , P , W
Your Answer	S , P , W

Multiple Choice Multiple Answer

Question	In solution of an assignment problem a row with zero costs is added and all the elements are multiplied by - 1, then the problem is of nature :-
Correct Answer	Unbalance assignment. , Maximization.
Your Answer	Prohibited assignments , Unbalance assignment. , Maximization.

Select The Blank

Question	A_____ is a graphic device to depict the sequence of decision to be made and the possible events that may occur.
Correct Answer	Decision tree
Your Answer	Decision tree

Select The Blank

Question	Terminology for Service Distribution is _____
Correct Answer	FCFS or LCFS
Your Answer	FIFO or LIFO

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

True/False

Question	Compute row & column values for stone squares is step for MODI method.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
----------	--

Correct Answer	Algorithm , Iteration , Slack variable
Your Answer	Algorithm , Minimax , Iteration

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
Correct Answer	Problem Formulation
Your Answer	Problem Formulation

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
Correct Answer	Linear programming , Sequencing model , Breakeven analysis
Your Answer	Linear programming , Sequencing model , Breakeven analysis

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the top management as a policy?
Correct Answer	Policy decisions
Your Answer	Policy decisions

Select The Blank

Question	The _____ represents consequences of the interactions of the decision alternatives and the chance events.
Correct Answer	Outcomes
Your Answer	Outcomes

####

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Select The Blank

Question	Decision Making under Conflict is termed as _____
Correct Answer	Competitive Strategies
Your Answer	Competitive Strategies

Select The Blank

Question	When both the players play their optimal strategies the resulting payoff is called _____ of game.
Correct Answer	Value
Your Answer	Maximin

Multiple Choice Multiple Answer

Question	Nomenclatures not related to Transportation Problem are :-
Correct Answer	S, P, L, D , S, P, W, M , T, P, W, D
Your Answer	S, P, L, D , S, P, W, M , T, P, W, D

True/False

Question	Analytical decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	True

True/False

Question	Service time can be either fixed & balanced layouts or it can be variable.
Correct Answer	True
Your Answer	True

Select The Blank

Question	LP decide on product quantities to maximize profit is _____.
Correct Answer	Product Mix Problems
Your Answer	Transportation Problems

True/False

Question	The graphical method is simple to understand & easy to use
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Point of intersection of pure strategies is called :-
Correct Answer	Value , Saddle point
Your Answer	Payoff , Value , Optimal strategy

True/False

Question	Sensitivity analysis can be illustrated easily by drawing the graph of the changes
Correct Answer	True
Your Answer	True

Match The Following

Question	Correct Answer	Your Answer
Political Risks	People Resistance	Institution
Financial Risks	ROI	CAD / CAM
Technical Risks	CAD / CAM	People Resistance
Functional Risks	HRD	ROI

Select The Blank

Question	In North West Corner Method, the _____ is handled
Correct Answer	Procedure of allocating units to cells
Your Answer	Satisfies supply & demand conditions

Multiple Choice Single Answer

Question	Linear Programming deciding on product quantities to maximize profit is called :-
Correct Answer	Product Mix Problems
Your Answer	Product Mix Problems

Select The Blank

Question	A row with higher elements is called _____ row.
Correct Answer	Dominating
Your Answer	Major

Select The Blank

Question	Number of customers in the queue plus those being serviced is _____.
Correct Answer	System Length
Your Answer	Queue length

Multiple Choice Multiple Answer

Question	In an assignment problem a machine is not capable of performing a job & number machines are one less than number of jobs, then the problem is :-
Correct Answer	Unbalanced assignment problem. , Prohibited assignment problem. , Minimization problem.
Your Answer	Maximization problems. , Unbalanced assignment problem. , Prohibited assignment problem.

True/False

Question	A game in which algebraic sum of gains of both the players after the play is not zero is called two person non zero sum
----------	---

game.
Correct Answer True
Your Answer True

Multiple Choice Single Answer

Question	Graphical method of Linear Programming is useful when a Linear Programming problem involves :-
Correct Answer	Two Variables
Your Answer	Two Variables

True/False

Question	Surplus variable is a variable used to convert a Less than or equal to constraint into equality by subtracting it from left hand side of the constraint.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Terms related to NWCM are :-
Correct Answer	Initial feasible solution , Allocation of units , Upper left hand corner
Your Answer	Initial feasible solution , Allocation of units , Upper left hand corner , Materials Distribution

True/False

Question	When number of minimum lines drawn covering all zero elements are less than number of columns/rows, more than one optimal solution exist.
Correct Answer	False
Your Answer	True

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x 2

Multiple Choice Multiple Answer

Question	Information to study an input process is :-
Correct Answer	Arrival distribution , Inter-arrival distribution , Mean arrival rate
Your Answer	Arrival distribution , Finance , Inter-arrival distribution

Multiple Choice Multiple Answer

Question	Which of the following can be considered as a general rules for data collection in the decision making process?
Correct Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded
Your Answer	The information should be subjected to checks and cross checks , Only organised and related facts should be collected , The information must be collected from the most reliable source

Select The Blank

Question	The _____ is concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement of action.
Correct Answer	Games theory
Your Answer	Games theory

Multiple Choice Multiple Answer

Question	Combination of strategies of players determines :-
Correct Answer	Outcomes , Payoff
Your Answer	Outcomes , Minimax , Saddle point

True/False

Question	Decision alternatives must not be mutually exclusive.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Value of a game having saddle point equals :-
Correct Answer	Saddle point
Your Answer	Saddle point

Multiple Choice Multiple Answer

Question	Pure strategies are also called :-
Correct Answer	Minimax pure strategy , Maximin pure strategy , Optimal strategies
Your Answer	Minimax pure strategy , Maximin pure strategy , Mixed strategy

Match The Following

Question	Correct Answer	Your Answer
----------	----------------	-------------

Sem-4 (Operations) -- Quantitative Techniques

Transportation Tableau	Data on shipping costs	Data on shipping costs
Transportation Problem	Transportation of goods or services	Supply points equals total demand
Balanced Transportation Problem	Supply points equals total demand	Mechanism of Operation
Un-balanced Transportation Problem	Supply points does not equal demand	Transportation of goods or services

Multiple Choice Multiple Answer

Question	Special cases on simplex method are :-
Correct Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution
Your Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution

Multiple Choice Single Answer

Question	Linear Programming develop a work schedule to meet staff needs at all hours with minimum number of employees is called as :-
Correct Answer	Staffing Problems
Your Answer	Staffing Problems

True/False

Question	A 2x2 mixed strategy game is solved by 1 mere programming.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Various Quantitative Techniques are :-
Correct Answer	Linear Programming , Replacement Theory , Queuing Theory
Your Answer	Linear Programming , Replacement Theory , Queuing Theory

True/False

Question	Static decisions are essentially not a one time decisions.
Correct Answer	False
Your Answer	True

Select The Blank

Question	_____ is called Stepping Stone Method.
Correct Answer	Unoccupied cells to achieve solution

Your Answer	Avoidance of high penalty & high-cost
-------------	---------------------------------------

Select The Blank

Question	Decision Making under Un-certainty is called as _____.
----------	--

Correct Answer	Uncertain Situations
----------------	----------------------

Your Answer	Stochastic Model
-------------	------------------

Multiple Choice Single Answer

Question	Which of the decision theory model indicates the situations where consequences of each act of decision maker are influenced by acts of opponent?
----------	--

Correct Answer	Competitive strategies
----------------	------------------------

Your Answer	Deterministic models
-------------	----------------------

Multiple Choice Single Answer

Question	Time spent by Service Facility to render the service to a Customer is :-
----------	--

Correct Answer	Service time
----------------	--------------

Your Answer	Service time
-------------	--------------

Multiple Choice Single Answer

Question	In pure strategy game, strategies of players are represented by row and maximin is 4. There value and game is :-
----------	--

Correct Answer	4
----------------	---

Your Answer	-4
-------------	----

Multiple Choice Multiple Answer

Question	Words related to NWCM are :-
----------	------------------------------

Correct Answer	North , Corner , West
----------------	-----------------------

Your Answer	North , Corner , West , Mechanism
-------------	-----------------------------------

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
----------	---

Correct Answer	Iteration
----------------	-----------

Your Answer	Iteration
-------------	-----------

Multiple Choice Single Answer

Question	In a pure strategy game, probability of selection of his optimal strategy by a player is :-
----------	---

Correct Answer	1
----------------	---

Your Answer	Zero
-------------	------

Multiple Choice Single Answer

Question	Linear Programming is one of the most popular techniques of :-
Correct Answer	Operation Research
Your Answer	Operation Research

Multiple Choice Multiple Answer

Question	Terms relating to LP are :-
Correct Answer	Constraints , Objective Function , Non-Negativity Condition
Your Answer	Constraints , Objective Function , Non-Negativity Condition

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the lower levels of management as an outcome of policy decision?
Correct Answer	Operating decision
Your Answer	Personal decision

Multiple Choice Single Answer

Question	Study of Comparable Past Events & Forecasting Future Events is :-
Correct Answer	Probability Theory
Your Answer	Probability Theory

Select The Blank

Question	A game in which there are two competing parties is called _____ game.
Correct Answer	2 person
Your Answer	2 x 3

####

Match The Following

Question	Correct Answer	Your Answer
Least Cost Method	Procedure of allocating units to cost	Satisfies supply & demand conditions
Dummy source or Destination	Extra row or column in a tableau	Extra row or column in a tableau
An Initial Feasible Solution	Satisfies supply & demand conditions	Mechanism of Operation
North West Corner Method	Procedure of allocating units to cells	Procedure of allocating units to cost

Select The Blank

Question	Brown's algorithm is used to solve _____ 2 persons zero game sum.
Correct Answer	m x n
Your Answer	m x n

Match The Following

Question	Correct Answer	Your Answer
MODI Method	Water cells to achieve solution	Water cells to achieve solution
Vogel's Approximation Method (VAM)	Avoidance of high penalty & high-cost	Avoidance of high penalty & high-cost
Degeneracy	Occupied cells are less than (m+n-1)	Occupied cells are less than (m+n-1)
Stepping Stone Method	Unoccupied cells to achieve solution	Unoccupied cells to achieve solution

True/False

Question	Smallest element in each row is subtracted from each element in the column.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Terminologies of Graphical Method are :-
Correct Answer	Constraints , Graph of linear equality/inequality , Half Space
Your Answer	Constraints , Graph of linear equality/inequality , Half Space , Payoff

Multiple Choice Single Answer

Question	Feasible Region is :-
Correct Answer	Region defined by the Constraints & non-negative restrictions
Your Answer	Region defined by the Constraints & non-negative restrictions

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

True/False

Question	Allocations are independent when it is not possible to alter any individual allocations.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Participants of the game are :-
Correct Answer	Players , Decision maker
Your Answer	Players , Decision maker , Payoffs , Elements

True/False

Question	A game in which algebraic sum of gains of both the players after the play is not zero is called two person non zero sum game.
Correct Answer	True
Your Answer	True

Select The Blank

Question	A mixed strategy 2 x 2 game is solved by _____ method.
Correct Answer	Algebraic
Your Answer	Linear programming

True/False

Question	Infeasibility is the condition in which the Linear Programming problem permits no feasible combination of the decision variables.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Every combination of strategies of players determines an outcomes called :-
Correct Answer	Pay off
Your Answer	Pay off

True/False

Question	Value of game to player II is negative of minimax value.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	In a standard minimization problem, objective is to :-
----------	--

Correct Answer Minimize total time. , Minimize total cost.

Your Answer Minimize total time. , Minimize total cost. , Find alternative optimal solution. , Allocate each task to each facility.

Multiple Choice Multiple Answer

Question Objects too can form queues as :-

Correct Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground

Your Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground , Finance

Select The Blank

Question The _____ is a method for deciding how to meet some desired objective which may be profit maximisation or cost minimization, subject to constraints on the amounts of commodities required or resources available.

Correct Answer Linear programming

Your Answer Linear programming

Multiple Choice Multiple Answer

Question Feasible solution formula contains :-

Correct Answer $m, n, 1, m, n, 3, n, 1, x$

Your Answer $m, n, 1, m, n, 3, n, 1, x, m, 1, p$

Select The Blank

Question Team approach needs for optimal solution of _____ Decisions.

Correct Answer Adaptive

Your Answer Adaptive

Multiple Choice Single Answer

Question Transportation Tableau is :-

Correct Answer Tabular arrangement of data on demand, capacity & per unit shipping costs bet. supply point to destination

Your Answer Tabular arrangement of data on demand, capacity & per unit shipping costs bet. supply point to destination

Multiple Choice Multiple Answer

Question Which of the following elements are used to construct the pay off matrix?

Correct Answer Pay off , strategies , Probabilities

Your Answer Pay off , strategies , Decision tree , Probabilities

Multiple Choice Multiple Answer

Question	Resource Management involves
Correct Answer	Man , Machines , Materials
Your Answer	Man , Machines , Materials , Work Orders

Multiple Choice Single Answer

Question	Last Step of Graphical Method of LP is :-
Correct Answer	Calculate the total profit / loss
Your Answer	Calculate the total profit / loss

True/False

Question	Effective improvement over the initial feasible solution is included in MODI.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x 2

True/False

Question	Surplus variable is a variable used to convert a Less than or equal to constraint into equality by subtracting it from left hand side of the constraint.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Extra row or column in tableau, with zero cost in each of its cells, used to balance an unbalanced problem is :-
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Multiple Answer

Question	Games theory can solve :-
Correct Answer	Two person's game , Two persons zero sum game , Two persons 3 x 3 game
Your Answer	Two person's game , N Person's game , Two persons zero sum game , Two persons 3 x 3 game

True/False

Question	Resulting payoff of optional strategies is called outcome.
Correct Answer	False
Your Answer	True

Select The Blank

Question	A row with higher elements is called _____ row.
Correct Answer	Dominating
Your Answer	Major

Select The Blank

Question	Constraint not affecting the feasible solution is _____.
Correct Answer	Redundant Constraint
Your Answer	Redundant Constraint

True/False

Question	Value of the subgame related to highest point in the feasible region is solution for $2 \times n$ game.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Special cases on simplex method are :-
Correct Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution
Your Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution , Payoffs

Select The Blank

Question	The _____ represents consequences of the interactions of the decision alternatives and the chance events.
Correct Answer	Outcomes
Your Answer	Outcomes

Select The Blank

Question	Number of customers in the queue plus those being serviced is _____.
Correct Answer	System Length
Your Answer	System Length

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
Correct Answer	Iteration
Your Answer	Iteration

Multiple Choice Multiple Answer

Question	Terms related to LCM are :-
Correct Answer	Initial feasible solution , Lowest Cost Cells , Next Lowest & so on
Your Answer	Initial feasible solution , Lowest Cost Cells , Next Lowest & so on , Finance Distribution

Multiple Choice Multiple Answer

Question	Value of game equals :-
Correct Answer	Saddle points , Weighted average of possible outcomes
Your Answer	Saddle points , Weighted average of possible outcomes , Zero , Value of any sum game

Multiple Choice Single Answer

Question	Expected gain to a player if he and his opponent use their best strategies is known as :-
Correct Answer	Value of game
Your Answer	Optimal strategy

Multiple Choice Multiple Answer

Question	Procedural steps in LCM are :-
Correct Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column
Your Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column , Prepare a Methodological report

Multiple Choice Single Answer

Question	A mixed strategy is decision of player to select :-
Correct Answer	Different strategies
Your Answer	Different strategies

Select The Blank

Question	Comparable Past Event & Forecasting Future Events Study is called _____
Correct Answer	Probability Theory
Your Answer	Probability Theory

Multiple Choice Single Answer

Question	Vogel's Approximation Method (VAM) is :-
Correct Answer	A systematic procedure to obtain an initial feasible solution based on avoidance of high penalty & cost cell
Your Answer	A systematic procedure to obtain an initial feasible solution based on avoidance of high penalty & cost cell

Multiple Choice Single Answer

Question	There are more than one optimal solutions to an assignment problem when :-
Correct Answer	Number of independent zeros are more than required ones.
Your Answer	Number of minimum lines covering all zeros are more than number of rows/columns

Multiple Choice Single Answer

Question	In an unbalanced assignment problem :-
Correct Answer	One or more facilities remain idle.
Your Answer	One or more facilities remain idle.

Multiple Choice Single Answer

Question	The column with the largest negative index number is :-
Correct Answer	Key Column
Your Answer	Key Column

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Multiple Answer

Question	Queues are formed at :-
Correct Answer	Telephone booths , Bus stand , Traffic lights
Your Answer	Bus stand , Traffic lights , Telephone booths

Multiple Choice Multiple Answer

Question	Specification of the constraints are :-
Correct Answer	Vendors , Available Hours , Space
Your Answer	Vendors , Space , Materials

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative maximin

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

Multiple Choice Single Answer

Question	Assignment technique is useful in a situation where :-
Correct Answer	Certain number of tasks are required to be attached to equal number of facilities
Your Answer	Certain number of tasks are required to be assigned to one facility

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Mean arrival rate

Select The Blank

Question	Identify decision variables is _____ step of Graphical Method.
----------	--

Correct Answer	First
----------------	-------

Your Answer	First
-------------	-------

True/False

Question	If a Linear Programming problem has no solution that satisfies all constraints, it is said to be feasible.
----------	--

Correct Answer	True
----------------	------

Your Answer	False
-------------	-------

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
----------	---

Correct Answer	True
----------------	------

Your Answer	True
-------------	------

Multiple Choice Single Answer

Question	Saddle point occurs when :-
----------	-----------------------------

Correct Answer	Maximin = Minimax
----------------	-------------------

Your Answer	Maximin > Minimax
-------------	-------------------

Multiple Choice Single Answer

Question	Decision Variables are :-
----------	---------------------------

Correct Answer	The unknowns to be determined from the solution to the model
----------------	--

Your Answer	The unknowns to be determined from the solution to the model
-------------	--

Multiple Choice Single Answer

Question	Graphical method can deal with :-
----------	-----------------------------------

Correct Answer	Any number of constraints
----------------	---------------------------

Your Answer	Two constraints
-------------	-----------------

Multiple Choice Multiple Answer

Question	Nomenclatures related to Transportation Problem are :-
----------	--

Correct Answer	S , P , W
----------------	-----------

Your Answer	S , P , W
-------------	-----------

Multiple Choice Multiple Answer

Question	In solution of an assignment problem a row with zero costs is added and all the elements are multiplied by - 1, then the problem is of nature :-
----------	--

Correct Answer	Unbalance assignment. , Maximization.
Your Answer	Prohibited assignments , Unbalance assignment. , Maximization.

Select The Blank

Question	A_____ is a graphic device to depict the sequence of decision to be made and the possible events that may occur.
Correct Answer	Decision tree
Your Answer	Decision tree

Select The Blank

Question	Terminology for Service Distribution is _____
Correct Answer	FCFS or LCFS
Your Answer	FIFO or LIFO

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

True/False

Question	Compute row & column values for stone squares is step for MODI method.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False

Your Answer	True
-------------	------

Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
----------	--

Correct Answer	Algorithm , Iteration , Slack variable
----------------	--

Your Answer	Algorithm , Minimax , Iteration
-------------	---------------------------------

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
----------	--

Correct Answer	Problem Formulation
----------------	---------------------

Your Answer	Problem Formulation
-------------	---------------------

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
----------	---

Correct Answer	Linear programming , Sequencing model , Breakeven analysis
----------------	--

Your Answer	Linear programming , Sequencing model , Breakeven analysis
-------------	--

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the top management as a policy?
----------	--

Correct Answer	Policy decisions
----------------	------------------

Your Answer	Policy decisions
-------------	------------------

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Multiple Answer

Question	Queues are formed at :-
----------	-------------------------

Correct Answer	Telephone booths , Bus stand , Traffic lights
----------------	---

Your Answer	Telephone booths , Bus stand , Traffic lights
-------------	---

Multiple Choice Multiple Answer

Question	Specification of the constraints are :-
----------	---

Correct Answer	Vendors , Available Hours , Space
----------------	-----------------------------------

Your Answer	Vendors , Space , Materials
-------------	-----------------------------

Multiple Choice Single Answer

Question	Which of the following is an example of a policy decision?
Correct Answer	Increment and promotion policy
Your Answer	Increment and promotion policy

Multiple Choice Multiple Answer

Question	Basic assumption in a play are :-
Correct Answer	Choice of strategy by players is simultaneous , No player knows choice of his opponent
Your Answer	Strategies are always pure , Choice of strategy by players is simultaneous , Strategies are always mixed

True/False

Question	A 2x2 mixed strategy game is solved by algebraic method.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	When number of tasks and number of facilities are not equal :-
Correct Answer	Some tasks may remain unassigned. , Some facilities may remain idle.
Your Answer	Some tasks may remain unassigned. , Some facilities may remain idle.

Multiple Choice Single Answer

Question	A row in the simplex table whose elements represent the decrease in the value of the objective function if one unit of jth variables is brought into the solution is :-
Correct Answer	Z_j row
Your Answer	$(Z_j - C_j)$ row (or index row)

Select The Blank

Question	_____ is an extra row or column in a tableau.
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Multiple Answer

Question	Which of the following are examples of tactical decisions?
Correct Answer	Loading and scheduling of jobs , Acceptance or rejection of excess quantity against delivery schedule , Splitting of raw material requirement among suppliers
Your Answer	Loading and scheduling of jobs , Acceptance or rejection of excess quantity against delivery schedule , Launching of a new product

True/False

Question	Adaptive decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	True

Select The Blank

Question	Positive non-zero values variables are called _____.
Correct Answer	Basic Variables
Your Answer	Basic Variables

Multiple Choice Multiple Answer

Question	Terminology NOT related with Linear Programming are :-
Correct Answer	Players , Payoff , Payoff Matrics
Your Answer	Objective Function

True/False

Question	Traffic intensity is product of average arrival rate & average service rate.
Correct Answer	False
Your Answer	True

Select The Blank

Question	Constraint not affecting the feasible solution is _____.
Correct Answer	Redundant Constraint
Your Answer	Redundant Constraint

Multiple Choice Single Answer

Question	Solution satisfying supply & demand conditions & yet may not be optimal is :-
Correct Answer	An Initial Feasible Solution
Your Answer	An Initial Feasible Solution

True/False

Question	Value of the subgame related to highest point in the feasible region is solution for $2 \times n$ game.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	The slack variables must take :-
Correct Answer	Positive Values
Your Answer	Both Values

Multiple Choice Multiple Answer

Question	Study of Process Capability is not related to :-
Correct Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis
Your Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis

Match The Following

Question	Correct Answer	Your Answer
Intersecting element is	The element at the intersection of other than key row & key column	The element at the intersection of key row & key column
Key Column is	The column with the largest negative index number	Row at the intersection of key row & key column
Key row is	The row with the smallest of the replacement ratios of the constraint rows	The row with the smallest of the replacement ratios of the constraint rows
Key element is	The element at the intersection of key row & key column	The element at the intersection of other than key row & key column

Multiple Choice Multiple Answer

Question	Which of the following are examples of basic decisions?
Correct Answer	Product mix , Plant location , Organisation structure
Your Answer	Decision on loan application by an employee , Plant location , Organisation structure

Select The Blank

Question	SOPs provide necessary base to select optimal solution is known as _____.
Correct Answer	Mechanistic Decisions
Your Answer	Analytical Decisions

Match The Following

Question	Correct Answer	Your Answer
Feasible Region	Defined by Constraints	Optimal Clause of Objective

Corner Points	Points of Intersection	Satisfy Constraints
Feasible Solution	Satisfy Constraints	Defined by Constraints
Optimal solution	Optimal Clause of Objective	Upper Limit

True/False

Question	LP problem cannot be solved by graphical or by simplex method.
Correct Answer	False
Your Answer	False

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative maximin

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

Multiple Choice Single Answer

Question	Assignment technique is useful in a situation where :-
Correct Answer	Certain number of tasks are required to be attached to equal number of facilities
Your Answer	Certain number of tasks are required to be assigned to one facility

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Mean arrival rate

Select The Blank

Question	Identify decision variables is _____ step of Graphical Method.
Correct Answer	First
Your Answer	First

True/False

Question	If a Linear Programming problem has no solution that satisfies all constraints, it is said to be feasible.
Correct Answer	True
Your Answer	False

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Saddle point occurs when :-
Correct Answer	Maximin = Minimax
Your Answer	Maximin > Minimax

Multiple Choice Single Answer

Question	Decision Variables are :-
Correct Answer	The unknowns to be determined from the solution to the model
Your Answer	The unknowns to be determined from the solution to the model

Multiple Choice Single Answer

Question	Graphical method can deal with :-
Correct Answer	Any number of constraints
Your Answer	Two constraints

Multiple Choice Multiple Answer

Question	Nomenclatures related to Transportation Problem are :-
Correct Answer	S , P , W
Your Answer	S , P , W

Multiple Choice Multiple Answer

Question	In solution of an assignment problem a row with zero costs is added and all the elements are multiplied by - 1, then the problem is of nature :-
Correct Answer	Unbalance assignment. , Maximization.
Your Answer	Prohibited assignments , Unbalance assignment. , Maximization.

Select The Blank

Question	A_____ is a graphic device to depict the sequence of decision to be made and the possible events that may occur.
Correct Answer	Decision tree
Your Answer	Decision tree

Select The Blank

Question	Terminology for Service Distribution is _____
Correct Answer	FCFS or LCFS
Your Answer	FIFO or LIFO

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

True/False

Question	Compute row & column values for stone squares is step for MODI method.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
----------	--

Correct Answer	Algorithm , Iteration , Slack variable
Your Answer	Algorithm , Minimax , Iteration

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
Correct Answer	Problem Formulation
Your Answer	Problem Formulation

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
Correct Answer	Linear programming , Sequencing model , Breakeven analysis
Your Answer	Linear programming , Sequencing model , Breakeven analysis

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the top management as a policy?
Correct Answer	Policy decisions
Your Answer	Policy decisions

Select The Blank

Question	The _____ represents consequences of the interactions of the decision alternatives and the chance events.
Correct Answer	Outcomes
Your Answer	Outcomes

####

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Select The Blank

Question	Decision Making under Conflict is termed as _____
Correct Answer	Competitive Strategies
Your Answer	Competitive Strategies

Select The Blank

Question	When both the players play their optimal strategies the resulting payoff is called _____ of game.
Correct Answer	Value
Your Answer	Maximin

Multiple Choice Multiple Answer

Question	Nomenclatures not related to Transportation Problem are :-
Correct Answer	S, P, L, D , S, P, W, M , T, P, W, D
Your Answer	S, P, L, D , S, P, W, M , T, P, W, D

True/False

Question	Analytical decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	True

True/False

Question	Service time can be either fixed & balanced layouts or it can be variable.
Correct Answer	True
Your Answer	True

Select The Blank

Question	LP decide on product quantities to maximize profit is _____.
Correct Answer	Product Mix Problems
Your Answer	Transportation Problems

True/False

Question	The graphical method is simple to understand & easy to use
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Point of intersection of pure strategies is called :-
Correct Answer	Value , Saddle point
Your Answer	Payoff , Value , Optimal strategy

True/False

Question	Sensitivity analysis can be illustrated easily by drawing the graph of the changes
Correct Answer	True
Your Answer	True

Match The Following

Question	Correct Answer	Your Answer
Political Risks	People Resistance	Institution
Financial Risks	ROI	CAD / CAM
Technical Risks	CAD / CAM	People Resistance
Functional Risks	HRD	ROI

Select The Blank

Question	In North West Corner Method, the _____ is handled
Correct Answer	Procedure of allocating units to cells
Your Answer	Satisfies supply & demand conditions

Multiple Choice Single Answer

Question	Linear Programming deciding on product quantities to maximize profit is called :-
Correct Answer	Product Mix Problems
Your Answer	Product Mix Problems

Select The Blank

Question	A row with higher elements is called _____ row.
Correct Answer	Dominating
Your Answer	Major

Select The Blank

Question	Number of customers in the queue plus those being serviced is _____.
Correct Answer	System Length
Your Answer	Queue length

Multiple Choice Multiple Answer

Question	In an assignment problem a machine is not capable of performing a job & number machines are one less than number of jobs, then the problem is :-
Correct Answer	Unbalanced assignment problem. , Prohibited assignment problem. , Minimization problem.
Your Answer	Maximization problems. , Unbalanced assignment problem. , Prohibited assignment problem.

True/False

Question	A game in which algebraic sum of gains of both the players after the play is not zero is called two person non zero sum
----------	---

game.
Correct Answer True
Your Answer True

Multiple Choice Single Answer

Question	Graphical method of Linear Programming is useful when a Linear Programming problem involves :-
Correct Answer	Two Variables
Your Answer	Two Variables

True/False

Question	Surplus variable is a variable used to convert a Less than or equal to constraint into equality by subtracting it from left hand side of the constraint.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Terms related to NWCM are :-
Correct Answer	Initial feasible solution , Allocation of units , Upper left hand corner
Your Answer	Initial feasible solution , Allocation of units , Upper left hand corner , Materials Distribution

True/False

Question	When number of minimum lines drawn covering all zero elements are less than number of columns/rows, more than one optimal solution exist.
Correct Answer	False
Your Answer	True

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x 2

Multiple Choice Multiple Answer

Question	Information to study an input process is :-
Correct Answer	Arrival distribution , Inter-arrival distribution , Mean arrival rate
Your Answer	Arrival distribution , Finance , Inter-arrival distribution

Multiple Choice Multiple Answer

Question	Which of the following can be considered as a general rules for data collection in the decision making process?
Correct Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded
Your Answer	The information should be subjected to checks and cross checks , Only organised and related facts should be collected , The information must be collected from the most reliable source

Select The Blank

Question	The _____ is concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement of action.
Correct Answer	Games theory
Your Answer	Games theory

Multiple Choice Multiple Answer

Question	Combination of strategies of players determines :-
Correct Answer	Outcomes , Payoff
Your Answer	Outcomes , Minimax , Saddle point

True/False

Question	Decision alternatives must not be mutually exclusive.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Value of a game having saddle point equals :-
Correct Answer	Saddle point
Your Answer	Saddle point

Multiple Choice Multiple Answer

Question	Pure strategies are also called :-
Correct Answer	Minimax pure strategy , Maximin pure strategy , Optimal strategies
Your Answer	Minimax pure strategy , Maximin pure strategy , Mixed strategy

Match The Following

Question	Correct Answer	Your Answer
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Sem-4 (Operations) -- Quantitative Techniques

Transportation Tableau	Data on shipping costs	Data on shipping costs
Transportation Problem	Transportation of goods or services	Supply points equals total demand
Balanced Transportation Problem	Supply points equals total demand	Mechanism of Operation
Un-balanced Transportation Problem	Supply points does not equal demand	Transportation of goods or services

Multiple Choice Multiple Answer

Question	Special cases on simplex method are :-
Correct Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution
Your Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution

Multiple Choice Single Answer

Question	Linear Programming develop a work schedule to meet staff needs at all hours with minimum number of employees is called as :-
Correct Answer	Staffing Problems
Your Answer	Staffing Problems

True/False

Question	A 2x2 mixed strategy game is solved by 1 mere programming.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Various Quantitative Techniques are :-
Correct Answer	Linear Programming , Replacement Theory , Queuing Theory
Your Answer	Linear Programming , Replacement Theory , Queuing Theory

True/False

Question	Static decisions are essentially not a one time decisions.
Correct Answer	False
Your Answer	True

Select The Blank

Question	_____ is called Stepping Stone Method.
Correct Answer	Unoccupied cells to achieve solution

Your Answer	Avoidance of high penalty & high-cost
-------------	---------------------------------------

Select The Blank

Question	Decision Making under Un-certainty is called as _____.
----------	--

Correct Answer	Uncertain Situations
----------------	----------------------

Your Answer	Stochastic Model
-------------	------------------

Multiple Choice Single Answer

Question	Which of the decision theory model indicates the situations where consequences of each act of decision maker are influenced by acts of opponent?
----------	--

Correct Answer	Competitive strategies
----------------	------------------------

Your Answer	Deterministic models
-------------	----------------------

Multiple Choice Single Answer

Question	Time spent by Service Facility to render the service to a Customer is :-
----------	--

Correct Answer	Service time
----------------	--------------

Your Answer	Service time
-------------	--------------

Multiple Choice Single Answer

Question	In pure strategy game, strategies of players are represented by row and maximin is 4. There value and game is :-
----------	--

Correct Answer	4
----------------	---

Your Answer	-4
-------------	----

Multiple Choice Multiple Answer

Question	Words related to NWCM are :-
----------	------------------------------

Correct Answer	North , Corner , West
----------------	-----------------------

Your Answer	North , Corner , West , Mechanism
-------------	-----------------------------------

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
----------	---

Correct Answer	Iteration
----------------	-----------

Your Answer	Iteration
-------------	-----------

Multiple Choice Single Answer

Question	In a pure strategy game, probability of selection of his optimal strategy by a player is :-
----------	---

Correct Answer	1
----------------	---

Your Answer	Zero
-------------	------

Multiple Choice Single Answer

Question	Linear Programming is one of the most popular techniques of :-
Correct Answer	Operation Research
Your Answer	Operation Research

Multiple Choice Multiple Answer

Question	Terms relating to LP are :-
Correct Answer	Constraints , Objective Function , Non-Negativity Condition
Your Answer	Constraints , Objective Function , Non-Negativity Condition

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the lower levels of management as an outcome of policy decision?
Correct Answer	Operating decision
Your Answer	Personal decision

Multiple Choice Single Answer

Question	Study of Comparable Past Events & Forecasting Future Events is :-
Correct Answer	Probability Theory
Your Answer	Probability Theory

Select The Blank

Question	A game in which there are two competing parties is called _____ game.
Correct Answer	2 person
Your Answer	2 x 3

####

Match The Following

Question	Correct Answer	Your Answer
Least Cost Method	Procedure of allocating units to cost	Satisfies supply & demand conditions
Dummy source or Destination	Extra row or column in a tableau	Extra row or column in a tableau
An Initial Feasible Solution	Satisfies supply & demand conditions	Mechanism of Operation
North West Corner Method	Procedure of allocating units to cells	Procedure of allocating units to cost

Select The Blank

Question	Brown's algorithm is used to solve _____ 2 persons zero game sum.
Correct Answer	m x n
Your Answer	m x n

Match The Following

Question	Correct Answer	Your Answer
MODI Method	Water cells to achieve solution	Water cells to achieve solution
Vogel's Approximation Method (VAM)	Avoidance of high penalty & high-cost	Avoidance of high penalty & high-cost
Degeneracy	Occupied cells are less than (m+n-1)	Occupied cells are less than (m+n-1)
Stepping Stone Method	Unoccupied cells to achieve solution	Unoccupied cells to achieve solution

True/False

Question	Smallest element in each row is subtracted from each element in the column.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Terminologies of Graphical Method are :-
Correct Answer	Constraints , Graph of linear equality/inequality , Half Space
Your Answer	Constraints , Graph of linear equality/inequality , Half Space , Payoff

Multiple Choice Single Answer

Question	Feasible Region is :-
Correct Answer	Region defined by the Constraints & non-negative restrictions
Your Answer	Region defined by the Constraints & non-negative restrictions

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

True/False

Question	Allocations are independent when it is not possible to alter any individual allocations.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Participants of the game are :-
Correct Answer	Players , Decision maker
Your Answer	Players , Decision maker , Payoffs , Elements

True/False

Question	A game in which algebraic sum of gains of both the players after the play is not zero is called two person non zero sum game.
Correct Answer	True
Your Answer	True

Select The Blank

Question	A mixed strategy 2 x 2 game is solved by _____ method.
Correct Answer	Algebraic
Your Answer	Linear programming

True/False

Question	Infeasibility is the condition in which the Linear Programming problem permits no feasible combination of the decision variables.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Every combination of strategies of players determines an outcomes called :-
Correct Answer	Pay off
Your Answer	Pay off

True/False

Question	Value of game to player II is negative of minimax value.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	In a standard minimization problem, objective is to :-
----------	--

Correct Answer Minimize total time. , Minimize total cost.

Your Answer Minimize total time. , Minimize total cost. , Find alternative optimal solution. , Allocate each task to each facility.

Multiple Choice Multiple Answer

Question Objects too can form queues as :-

Correct Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground

Your Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground , Finance

Select The Blank

Question The _____ is a method for deciding how to meet some desired objective which may be profit maximisation or cost minimization, subject to constraints on the amounts of commodities required or resources available.

Correct Answer Linear programming

Your Answer Linear programming

Multiple Choice Multiple Answer

Question Feasible solution formula contains :-

Correct Answer $m, n, 1, m, n, 3, n, 1, x$

Your Answer $m, n, 1, m, n, 3, n, 1, x, m, 1, p$

Select The Blank

Question Team approach needs for optimal solution of _____ Decisions.

Correct Answer Adaptive

Your Answer Adaptive

Multiple Choice Single Answer

Question Transportation Tableau is :-

Correct Answer Tabular arrangement of data on demand, capacity & per unit shipping costs bet. supply point to destination

Your Answer Tabular arrangement of data on demand, capacity & per unit shipping costs bet. supply point to destination

Multiple Choice Multiple Answer

Question Which of the following elements are used to construct the pay off matrix?

Correct Answer Pay off , strategies , Probabilities

Your Answer Pay off , strategies , Decision tree , Probabilities

Multiple Choice Multiple Answer

Question	Resource Management involves
Correct Answer	Man , Machines , Materials
Your Answer	Man , Machines , Materials , Work Orders

Multiple Choice Single Answer

Question	Last Step of Graphical Method of LP is :-
Correct Answer	Calculate the total profit / loss
Your Answer	Calculate the total profit / loss

True/False

Question	Effective improvement over the initial feasible solution is included in MODI.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x 2

True/False

Question	Surplus variable is a variable used to convert a Less than or equal to constraint into equality by subtracting it from left hand side of the constraint.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Extra row or column in tableau, with zero cost in each of its cells, used to balance an unbalanced problem is :-
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Multiple Answer

Question	Games theory can solve :-
Correct Answer	Two person's game , Two persons zero sum game , Two persons 3 x 3 game
Your Answer	Two person's game , N Person's game , Two persons zero sum game , Two persons 3 x 3 game

True/False

Question	Resulting payoff of optional strategies is called outcome.
Correct Answer	False
Your Answer	True

Select The Blank

Question	A row with higher elements is called _____ row.
Correct Answer	Dominating
Your Answer	Major

Select The Blank

Question	Constraint not affecting the feasible solution is _____.
Correct Answer	Redundant Constraint
Your Answer	Redundant Constraint

True/False

Question	Value of the subgame related to highest point in the feasible region is solution for $2 \times n$ game.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Special cases on simplex method are :-
Correct Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution
Your Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution , Payoffs

Select The Blank

Question	The _____ represents consequences of the interactions of the decision alternatives and the chance events.
Correct Answer	Outcomes
Your Answer	Outcomes

Select The Blank

Question	Number of customers in the queue plus those being serviced is _____.
Correct Answer	System Length
Your Answer	System Length

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
Correct Answer	Iteration
Your Answer	Iteration

Multiple Choice Multiple Answer

Question	Terms related to LCM are :-
Correct Answer	Initial feasible solution , Lowest Cost Cells , Next Lowest & so on
Your Answer	Initial feasible solution , Lowest Cost Cells , Next Lowest & so on , Finance Distribution

Multiple Choice Multiple Answer

Question	Value of game equals :-
Correct Answer	Saddle points , Weighted average of possible outcomes
Your Answer	Saddle points , Weighted average of possible outcomes , Zero , Value of any sum game

Multiple Choice Single Answer

Question	Expected gain to a player if he and his opponent use their best strategies is known as :-
Correct Answer	Value of game
Your Answer	Optimal strategy

Multiple Choice Multiple Answer

Question	Procedural steps in LCM are :-
Correct Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column
Your Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column , Prepare a Methodological report

Multiple Choice Single Answer

Question	A mixed strategy is decision of player to select :-
Correct Answer	Different strategies
Your Answer	Different strategies

Select The Blank

Question	Comparable Past Event & Forecasting Future Events Study is called _____
Correct Answer	Probability Theory
Your Answer	Probability Theory

Multiple Choice Single Answer

Question	Vogel's Approximation Method (VAM) is :-
Correct Answer	A systematic procedure to obtain an initial feasible solution based on avoidance of high penalty & cost cell
Your Answer	A systematic procedure to obtain an initial feasible solution based on avoidance of high penalty & cost cell

Multiple Choice Single Answer

Question	There are more than one optimal solutions to an assignment problem when :-
Correct Answer	Number of independent zeros are more than required ones.
Your Answer	Number of minimum lines covering all zeros are more than number of rows/columns

Multiple Choice Single Answer

Question	In an unbalanced assignment problem :-
Correct Answer	One or more facilities remain idle.
Your Answer	One or more facilities remain idle.

Multiple Choice Single Answer

Question	The column with the largest negative index number is :-
Correct Answer	Key Column
Your Answer	Key Column

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Match The Following

Question	Correct Answer	Your Answer
Least Cost Method	Procedure of allocating units to cost	Procedure of allocating units to cost
Dummy source or Destination	Extra row or column in a tableau	Extra row or column in a tableau
An Initial Feasible Solution	Satisfies supply & demand conditions	Satisfies supply & demand conditions
North West Corner Method	Procedure of allocating units to cells	Procedure of allocating units to cells

Multiple Choice Multiple Answer

Question	Value of the pure strategy game is :-
Correct Answer	Maximin for player I , Negative minimax for player II
Your Answer	Maximin for player I , Minimax for player I , Minimax for player II

True/False

Question	Constraint that does not affect the feasible solution is Redundant.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Materials Management involves :-
Correct Answer	Stores , Warehouses , Transportation
Your Answer	Stores , Warehouses , Transportation

True/False

Question	Graphical method is restricted to two variables.
Correct Answer	True
Your Answer	False

Multiple Choice Single Answer

Question	Study of Comparable Past Events & Forecasting Future Events is :-
----------	---

Correct Answer	Probability Theory
----------------	--------------------

Your Answer	Probability Theory
-------------	--------------------

Select The Blank

Question	To assign a task, a zero in a row/column with _____ zero is marked with square.
----------	---

Correct Answer	Exactly one
----------------	-------------

Your Answer	Exactly one
-------------	-------------

Multiple Choice Single Answer

Question	The column with the largest negative index number is :-
----------	---

Correct Answer	Key Column
----------------	------------

Your Answer	Key Column
-------------	------------

Multiple Choice Single Answer

Question	Decision of a player to play row corresponding to maximin value is called :-
----------	--

Correct Answer	Maximin Pure strategy
----------------	-----------------------

Your Answer	Pure strategy
-------------	---------------

Multiple Choice Single Answer

Question	In NWCM, N stands for :-
----------	--------------------------

Correct Answer	North
----------------	-------

Your Answer	North
-------------	-------

Multiple Choice Multiple Answer

Question	Terms relating to LP are :-
----------	-----------------------------

Correct Answer	Constraints , Objective Function , Non-Negativity Condition
----------------	---

Your Answer	Constraints , Objective Function , Non-Negativity Condition
-------------	---

True/False

Question	Decision alternatives must not be mutually exclusive.
----------	---

Correct Answer	False
----------------	-------

Your Answer	False
-------------	-------

Multiple Choice Multiple Answer

Question	Various Terms involved in Simplex Method are :-
Correct Answer	Key Element , Key Row , Key Column
Your Answer	Key Element , Key Row , Key Column

True/False

Question	When number of minimum lines drawn covering all zero elements are less than number of columns/rows, more than one optimal solution exist.
Correct Answer	False
Your Answer	False

True/False

Question	Resulting payoff of optional strategies is called outcome.
Correct Answer	False
Your Answer	False

Select The Blank

Question	Cash flows & determining Optimal investment proposal is _____.
Correct Answer	Investment Theory
Your Answer	Allocation Model

Select The Blank

Question	LP is most popular techniques of _____.
Correct Answer	Operation Research
Your Answer	Operation Research

True/False

Question	Though graphical method can deal with any number of a constraints but since each constraint is shown as a line on a graph, a large number of lines make the graph difficult to read.
Correct Answer	True
Your Answer	False

Match The Following

Question	Correct Answer	Your Answer
----------	----------------	-------------

Graphical Method Step 4	LPP Formulation	Calculate Profit/Cost
Graphical Method Step 1	Identify Decision Variables	Equation of Objective Function
Graphical Method Step 2	Equation of Objective Function	LPP Formulation
Graphical Method Step 3	Equation of Constraints	Graph Objective Function

Multiple Choice Single Answer

Question	If a mixed strategy game is and $2 \times n$ size then the first step to solve the game is to:-
Correct Answer	Reduce game by dominance rule
Your Answer	Look for saddle point

Multiple Choice Multiple Answer

Question	Saddle points equals to :-
Correct Answer	Assigning task to facility , Maximin
Your Answer	Assigning task to facility , Zero , Maximin

Select The Blank

Question	Comparable Past Event & Forecasting Future Events Study is called _____
Correct Answer	Probability Theory
Your Answer	Probability Theory

Select The Blank

Question	Initial Feasible solution must have _____ allocations.
Correct Answer	$(m+n-1)$
Your Answer	$(n-m-1)$

Multiple Choice Multiple Answer

Question	Nomenclatures not related to Transportation Problem are :-
Correct Answer	T, P, W, D , S, P, L, D , S, P, W, M
Your Answer	S, P, L, D , S, P, W, M , T, P, W, D

True/False

Question	Traffic intensity is product of average arrival rate & average service rate.
----------	--

Correct Answer False

Your Answer False

Select The Blank

Question Dummy source has _____ cost.

Correct Answer Zero

Your Answer Zero

Multiple Choice Single Answer

Question Infeasible Solution :-

Correct Answer No solution satisfies all constraints

Your Answer No solution satisfies all constraints

Multiple Choice Multiple Answer

Question LP can be used to solve the problems of :-

Correct Answer Production , Materials , Marketing

Your Answer Production , Materials , Marketing

Multiple Choice Single Answer

Question What is MODI Method?

Correct Answer A systematic procedure for evaluating unoccupied (water) cells to achieve an optimal solution

Your Answer A systematic procedure for evaluating unoccupied (water) cells to achieve an optimal solution

Select The Blank

Question Minimax value sets _____ limit on game.

Correct Answer Upper

Your Answer Optimal

True/False

Question Analytical decisions involve problems with limited number of decision variables.

Correct Answer False

Your Answer False

Select The Blank

Question	Positive non-zero values variables are called _____.
Correct Answer	Basic Variables
Your Answer	Basic Variables

True/False

Question	Extra variable added to obtain an initial feasible solution to a LP problem is Artificial Variable.
Correct Answer	True
Your Answer	True

True/False

Question	Adaptive decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	False

Select The Blank

Question	Team approach needs for optimal solution of _____ Decisions.
Correct Answer	Adaptive
Your Answer	Adaptive

Select The Blank

Question	ISO-9001 QMS is for _____.
Correct Answer	Quality System
Your Answer	Quality System

Multiple Choice Multiple Answer

Question	In pure strategy game value is equal to :-
Correct Answer	Saddle point , Maximin , Minimax
Your Answer	Weighted average of possible outcome , Saddle point , Maximin

Multiple Choice Multiple Answer

Question	Game can have :-
Correct Answer	Mixed strategies , Pure strategies

Your Answer	Mixed strategies , Pure strategies , Single strategy
-------------	--

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
----------	---

Correct Answer	Iteration
----------------	-----------

Your Answer	Iteration
-------------	-----------

Multiple Choice Single Answer

Question	Graphical method can deal with how many constraints?
----------	--

Correct Answer	Any number
----------------	------------

Your Answer	Any number
-------------	------------

Multiple Choice Multiple Answer

Question	Terms related to NWCM are :-
----------	------------------------------

Correct Answer	Initial feasible solution , Allocation of units , Upper left hand corner
----------------	--

Your Answer	Initial feasible solution , Allocation of units , Upper left hand corner
-------------	--

Multiple Choice Multiple Answer

Question	Objects too can form queues as :-
----------	-----------------------------------

Correct Answer	Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground
----------------	---

Your Answer	Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground
-------------	---

Multiple Choice Single Answer

Question	A systematic procedure for evaluating unoccupied cells for optimal solution is :-
----------	---

Correct Answer	Stepping Stone Method
----------------	-----------------------

Your Answer	Stepping Stone Method
-------------	-----------------------

Multiple Choice Multiple Answer

Question	Pure strategies art also called :-
----------	------------------------------------

Correct Answer	Minimax pure strategy , Maximin pure strategy , Optimal strategies
----------------	--

Your Answer	Minimax pure strategy , Maximin pure strategy , Optimal strategies
-------------	--

Select The Blank

Question	Unbounded Solution is one which is _____.
Correct Answer	Permitted to be infinitely large
Your Answer	Which does not define the boundaries of the feasible solution

Multiple Choice Single Answer

Question	Redundant Constraint is :-
Correct Answer	Which does not define the boundaries of the feasible solution
Your Answer	Point that gives same optimal value

Multiple Choice Single Answer

Question	A Graph is :-
Correct Answer	Two-variable-linear-equation is always a Straight Line
Your Answer	Two-variable-linear-equation is always a Straight Line

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Multiple Answer

Question	Queues are formed at :-
Correct Answer	Telephone booths , Bus stand , Traffic lights
Your Answer	Bus stand , Traffic lights , Telephone booths

Multiple Choice Multiple Answer

Question	Specification of the constraints are :-
Correct Answer	Vendors , Available Hours , Space
Your Answer	Vendors , Space , Materials

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative maximin

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

Multiple Choice Single Answer

Question	Assignment technique is useful in a situation where :-
Correct Answer	Certain number of tasks are required to be attached to equal number of facilities
Your Answer	Certain number of tasks are required to be assigned to one facility

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Mean arrival rate

Select The Blank

Question	Identify decision variables is _____ step of Graphical Method.
----------	--

Correct Answer	First
Your Answer	First

True/False

Question	If a Linear Programming problem has no solution that satisfies all constraints, it is said to be feasible.
Correct Answer	True
Your Answer	False

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Saddle point occurs when :-
Correct Answer	Maximin = Minimax
Your Answer	Maximin > Minimax

Multiple Choice Single Answer

Question	Decision Variables are :-
Correct Answer	The unknowns to be determined from the solution to the model
Your Answer	The unknowns to be determined from the solution to the model

Multiple Choice Single Answer

Question	Graphical method can deal with :-
Correct Answer	Any number of constraints
Your Answer	Two constraints

Multiple Choice Multiple Answer

Question	Nomenclatures related to Transportation Problem are :-
Correct Answer	S , P , W
Your Answer	S , P , W

Multiple Choice Multiple Answer

Question	In solution of an assignment problem a row with zero costs is added and all the elements are multiplied by - 1, then the problem is of nature :-
----------	--

Correct Answer	Unbalance assignment. , Maximization.
Your Answer	Prohibited assignments , Unbalance assignment. , Maximization.

Select The Blank

Question	A_____ is a graphic device to depict the sequence of decision to be made and the possible events that may occur.
Correct Answer	Decision tree
Your Answer	Decision tree

Select The Blank

Question	Terminology for Service Distribution is _____
Correct Answer	FCFS or LCFS
Your Answer	FIFO or LIFO

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

True/False

Question	Compute row & column values for stone squares is step for MODI method.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False

Your Answer	True
-------------	------

Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
----------	--

Correct Answer	Algorithm , Iteration , Slack variable
----------------	--

Your Answer	Algorithm , Minimax , Iteration
-------------	---------------------------------

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
----------	--

Correct Answer	Problem Formulation
----------------	---------------------

Your Answer	Problem Formulation
-------------	---------------------

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
----------	---

Correct Answer	Linear programming , Sequencing model , Breakeven analysis
----------------	--

Your Answer	Linear programming , Sequencing model , Breakeven analysis
-------------	--

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the top management as a policy?
----------	--

Correct Answer	Policy decisions
----------------	------------------

Your Answer	Policy decisions
-------------	------------------

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Multiple Answer

Question	Queues are formed at :-
----------	-------------------------

Correct Answer	Telephone booths , Bus stand , Traffic lights
----------------	---

Your Answer	Telephone booths , Bus stand , Traffic lights
-------------	---

Multiple Choice Multiple Answer

Question	Specification of the constraints are :-
----------	---

Correct Answer	Vendors , Available Hours , Space
----------------	-----------------------------------

Your Answer	Vendors , Space , Materials
-------------	-----------------------------

Multiple Choice Single Answer

Question	Which of the following is an example of a policy decision?
Correct Answer	Increment and promotion policy
Your Answer	Increment and promotion policy

Multiple Choice Multiple Answer

Question	Basic assumption in a play are :-
Correct Answer	Choice of strategy by players is simultaneous , No player knows choice of his opponent
Your Answer	Strategies are always pure , Choice of strategy by players is simultaneous , Strategies are always mixed

True/False

Question	A 2x2 mixed strategy game is solved by algebraic method.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	When number of tasks and number of facilities are not equal :-
Correct Answer	Some tasks may remain unassigned. , Some facilities may remain idle.
Your Answer	Some tasks may remain unassigned. , Some facilities may remain idle.

Multiple Choice Single Answer

Question	A row in the simplex table whose elements represent the decrease in the value of the objective function if one unit of jth variables is brought into the solution is :-
Correct Answer	Z_j row
Your Answer	$(Z_j - C_j)$ row (or index row)

Select The Blank

Question	_____ is an extra row or column in a tableau.
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Multiple Answer

Question	Which of the following are examples of tactical decisions?
Correct Answer	Loading and scheduling of jobs , Acceptance or rejection of excess quantity against delivery schedule , Splitting of raw material requirement among suppliers
Your Answer	Loading and scheduling of jobs , Acceptance or rejection of excess quantity against delivery schedule , Launching of a new product

True/False

Question	Adaptive decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	True

Select The Blank

Question	Positive non-zero values variables are called _____.
Correct Answer	Basic Variables
Your Answer	Basic Variables

Multiple Choice Multiple Answer

Question	Terminology NOT related with Linear Programming are :-
Correct Answer	Players , Payoff , Payoff Matrics
Your Answer	Objective Function

True/False

Question	Traffic intensity is product of average arrival rate & average service rate.
Correct Answer	False
Your Answer	True

Select The Blank

Question	Constraint not affecting the feasible solution is _____.
Correct Answer	Redundant Constraint
Your Answer	Redundant Constraint

Multiple Choice Single Answer

Question	Solution satisfying supply & demand conditions & yet may not be optimal is :-
Correct Answer	An Initial Feasible Solution
Your Answer	An Initial Feasible Solution

True/False

Question	Value of the subgame related to highest point in the feasible region is solution for $2 \times n$ game.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	The slack variables must take :-
Correct Answer	Positive Values
Your Answer	Both Values

Multiple Choice Multiple Answer

Question	Study of Process Capability is not related to :-
Correct Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis
Your Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis

Match The Following

Question	Correct Answer	Your Answer
Intersecting element is	The element at the intersection of other than key row & key column	The element at the intersection of key row & key column
Key Column is	The column with the largest negative index number	Row at the intersection of key row & key column
Key row is	The row with the smallest of the replacement ratios of the constraint rows	The row with the smallest of the replacement ratios of the constraint rows
Key element is	The element at the intersection of key row & key column	The element at the intersection of other than key row & key column

Multiple Choice Multiple Answer

Question	Which of the following are examples of basic decisions?
Correct Answer	Product mix , Plant location , Organisation structure
Your Answer	Decision on loan application by an employee , Plant location , Organisation structure

Select The Blank

Question	SOPs provide necessary base to select optimal solution is known as _____.
Correct Answer	Mechanistic Decisions
Your Answer	Analytical Decisions

Match The Following

Question	Correct Answer	Your Answer
Feasible Region	Defined by Constraints	Optimal Clause of Objective

Corner Points	Points of Intersection	Satisfy Constraints
Feasible Solution	Satisfy Constraints	Defined by Constraints
Optimal solution	Optimal Clause of Objective	Upper Limit

True/False

Question	LP problem cannot be solved by graphical or by simplex method.
Correct Answer	False
Your Answer	False

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative maximin

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

Multiple Choice Single Answer

Question	Assignment technique is useful in a situation where :-
Correct Answer	Certain number of tasks are required to be attached to equal number of facilities
Your Answer	Certain number of tasks are required to be assigned to one facility

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Mean arrival rate

Select The Blank

Question	Identify decision variables is _____ step of Graphical Method.
Correct Answer	First
Your Answer	First

True/False

Question	If a Linear Programming problem has no solution that satisfies all constraints, it is said to be feasible.
Correct Answer	True
Your Answer	False

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Saddle point occurs when :-
Correct Answer	Maximin = Minimax
Your Answer	Maximin > Minimax

Multiple Choice Single Answer

Question	Decision Variables are :-
Correct Answer	The unknowns to be determined from the solution to the model
Your Answer	The unknowns to be determined from the solution to the model

Multiple Choice Single Answer

Question	Graphical method can deal with :-
Correct Answer	Any number of constraints
Your Answer	Two constraints

Multiple Choice Multiple Answer

Question	Nomenclatures related to Transportation Problem are :-
Correct Answer	S , P , W
Your Answer	S , P , W

Multiple Choice Multiple Answer

Question	In solution of an assignment problem a row with zero costs is added and all the elements are multiplied by - 1, then the problem is of nature :-
Correct Answer	Unbalance assignment. , Maximization.
Your Answer	Prohibited assignments , Unbalance assignment. , Maximization.

Select The Blank

Question	A _____ is a graphic device to depict the sequence of decision to be made and the possible events that may occur.
Correct Answer	Decision tree
Your Answer	Decision tree

Select The Blank

Question	Terminology for Service Distribution is _____
Correct Answer	FCFS or LCFS
Your Answer	FIFO or LIFO

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

True/False

Question	Compute row & column values for stone squares is step for MODI method.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
----------	--

Correct Answer	Algorithm , Iteration , Slack variable
Your Answer	Algorithm , Minimax , Iteration

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
Correct Answer	Problem Formulation
Your Answer	Problem Formulation

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
Correct Answer	Linear programming , Sequencing model , Breakeven analysis
Your Answer	Linear programming , Sequencing model , Breakeven analysis

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the top management as a policy?
Correct Answer	Policy decisions
Your Answer	Policy decisions

Select The Blank

Question	The _____ represents consequences of the interactions of the decision alternatives and the chance events.
Correct Answer	Outcomes
Your Answer	Outcomes

####

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Select The Blank

Question	Decision Making under Conflict is termed as _____
Correct Answer	Competitive Strategies
Your Answer	Competitive Strategies

Select The Blank

Question	When both the players play their optimal strategies the resulting payoff is called _____ of game.
Correct Answer	Value
Your Answer	Maximin

Multiple Choice Multiple Answer

Question	Nomenclatures not related to Transportation Problem are :-
Correct Answer	S, P, L, D , S, P, W, M , T, P, W, D
Your Answer	S, P, L, D , S, P, W, M , T, P, W, D

True/False

Question	Analytical decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	True

True/False

Question	Service time can be either fixed & balanced layouts or it can be variable.
Correct Answer	True
Your Answer	True

Select The Blank

Question	LP decide on product quantities to maximize profit is _____.
Correct Answer	Product Mix Problems
Your Answer	Transportation Problems

True/False

Question	The graphical method is simple to understand & easy to use
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Point of intersection of pure strategies is called :-
Correct Answer	Value , Saddle point
Your Answer	Payoff , Value , Optimal strategy

True/False

Question	Sensitivity analysis can be illustrated easily by drawing the graph of the changes
Correct Answer	True
Your Answer	True

Match The Following

Question	Correct Answer	Your Answer
Political Risks	People Resistance	Institution
Financial Risks	ROI	CAD / CAM
Technical Risks	CAD / CAM	People Resistance
Functional Risks	HRD	ROI

Select The Blank

Question	In North West Corner Method, the _____ is handled
Correct Answer	Procedure of allocating units to cells
Your Answer	Satisfies supply & demand conditions

Multiple Choice Single Answer

Question	Linear Programming deciding on product quantities to maximize profit is called :-
Correct Answer	Product Mix Problems
Your Answer	Product Mix Problems

Select The Blank

Question	A row with higher elements is called _____ row.
Correct Answer	Dominating
Your Answer	Major

Select The Blank

Question	Number of customers in the queue plus those being serviced is _____.
Correct Answer	System Length
Your Answer	Queue length

Multiple Choice Multiple Answer

Question	In an assignment problem a machine is not capable of performing a job & number machines are one less than number of jobs, then the problem is :-
Correct Answer	Unbalanced assignment problem. , Prohibited assignment problem. , Minimization problem.
Your Answer	Maximization problems. , Unbalanced assignment problem. , Prohibited assignment problem.

True/False

Question	A game in which algebraic sum of gains of both the players after the play is not zero is called two person non zero sum
----------	---

	game.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Graphical method of Linear Programming is useful when a Linear Programming problem involves :-
Correct Answer	Two Variables
Your Answer	Two Variables

True/False

Question	Surplus variable is a variable used to convert a Less than or equal to constraint into equality by subtracting it from left hand side of the constraint.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Terms related to NWCM are :-
Correct Answer	Initial feasible solution , Allocation of units , Upper left hand corner
Your Answer	Initial feasible solution , Allocation of units , Upper left hand corner , Materials Distribution

True/False

Question	When number of minimum lines drawn covering all zero elements are less than number of columns/rows, more than one optimal solution exist.
Correct Answer	False
Your Answer	True

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x 2

Multiple Choice Multiple Answer

Question	Information to study an input process is :-
Correct Answer	Arrival distribution , Inter-arrival distribution , Mean arrival rate
Your Answer	Arrival distribution , Finance , Inter-arrival distribution

Multiple Choice Multiple Answer

Question	Which of the following can be considered as a general rules for data collection in the decision making process?
Correct Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded
Your Answer	The information should be subjected to checks and cross checks , Only organised and related facts should be collected , The information must be collected from the most reliable source

Select The Blank

Question	The _____ is concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement of action.
Correct Answer	Games theory
Your Answer	Games theory

Multiple Choice Multiple Answer

Question	Combination of strategies of players determines :-
Correct Answer	Outcomes , Payoff
Your Answer	Outcomes , Minimax , Saddle point

True/False

Question	Decision alternatives must not be mutually exclusive.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Value of a game having saddle point equals :-
Correct Answer	Saddle point
Your Answer	Saddle point

Multiple Choice Multiple Answer

Question	Pure strategies are also called :-
Correct Answer	Minimax pure strategy , Maximin pure strategy , Optimal strategies
Your Answer	Minimax pure strategy , Maximin pure strategy , Mixed strategy

Match The Following

Question	Correct Answer	Your Answer
----------	----------------	-------------

Sem-4 (Operations) -- Quantitative Techniques

Transportation Tableau	Data on shipping costs	Data on shipping costs
Transportation Problem	Transportation of goods or services	Supply points equals total demand
Balanced Transportation Problem	Supply points equals total demand	Mechanism of Operation
Un-balanced Transportation Problem	Supply points does not equal demand	Transportation of goods or services

Multiple Choice Multiple Answer

Question	Special cases on simplex method are :-
Correct Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution
Your Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution

Multiple Choice Single Answer

Question	Linear Programming develop a work schedule to meet staff needs at all hours with minimum number of employees is called as :-
Correct Answer	Staffing Problems
Your Answer	Staffing Problems

True/False

Question	A 2x2 mixed strategy game is solved by 1 mere programming.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Various Quantitative Techniques are :-
Correct Answer	Linear Programming , Replacement Theory , Queuing Theory
Your Answer	Linear Programming , Replacement Theory , Queuing Theory

True/False

Question	Static decisions are essentially not a one time decisions.
Correct Answer	False
Your Answer	True

Select The Blank

Question	_____ is called Stepping Stone Method.
Correct Answer	Unoccupied cells to achieve solution

Your Answer	Avoidance of high penalty & high-cost
-------------	---------------------------------------

Select The Blank

Question	Decision Making under Un-certainty is called as _____.
----------	--

Correct Answer	Uncertain Situations
----------------	----------------------

Your Answer	Stochastic Model
-------------	------------------

Multiple Choice Single Answer

Question	Which of the decision theory model indicates the situations where consequences of each act of decision maker are influenced by acts of opponent?
----------	--

Correct Answer	Competitive strategies
----------------	------------------------

Your Answer	Deterministic models
-------------	----------------------

Multiple Choice Single Answer

Question	Time spent by Service Facility to render the service to a Customer is :-
----------	--

Correct Answer	Service time
----------------	--------------

Your Answer	Service time
-------------	--------------

Multiple Choice Single Answer

Question	In pure strategy game, strategies of players are represented by row and maximin is 4. There value and game is :-
----------	--

Correct Answer	4
----------------	---

Your Answer	-4
-------------	----

Multiple Choice Multiple Answer

Question	Words related to NWCM are :-
----------	------------------------------

Correct Answer	North , Corner , West
----------------	-----------------------

Your Answer	North , Corner , West , Mechanism
-------------	-----------------------------------

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
----------	---

Correct Answer	Iteration
----------------	-----------

Your Answer	Iteration
-------------	-----------

Multiple Choice Single Answer

Question	In a pure strategy game, probability of selection of his optimal strategy by a player is :-
----------	---

Correct Answer	1
----------------	---

Your Answer Zero

Multiple Choice Single Answer

Question Linear Programming is one of the most popular techniques of :-

Correct Answer Operation Research

Your Answer Operation Research

Multiple Choice Multiple Answer

Question Terms relating to LP are :-

Correct Answer Constraints , Objective Function , Non-Negativity Condition

Your Answer Constraints , Objective Function , Non-Negativity Condition

Multiple Choice Single Answer

Question What do you mean by the decisions taken by the lower levels of management as an outcome of policy decision?

Correct Answer Operating decision

Your Answer Personal decision

Multiple Choice Single Answer

Question Study of Comparable Past Events & Forecasting Future Events is :-

Correct Answer Probability Theory

Your Answer Probability Theory

Select The Blank

Question A game in which there are two competing parties is called _____ game.

Correct Answer 2 person

Your Answer 2 x 3

#####

Match The Following

Question	Correct Answer	Your Answer
Least Cost Method	Procedure of allocating units to cost	Satisfies supply & demand conditions
Dummy source or Destination	Extra row or column in a tableau	Extra row or column in a tableau
An Initial Feasible Solution	Satisfies supply & demand conditions	Mechanism of Operation
North West Corner Method	Procedure of allocating units to cells	Procedure of allocating units to cost

Select The Blank

Question	Brown's algorithm is used to solve _____ 2 persons zero game sum.
Correct Answer	m x n
Your Answer	m x n

Match The Following

Question	Correct Answer	Your Answer
MODI Method	Water cells to achieve solution	Water cells to achieve solution
Vogel's Approximation Method (VAM)	Avoidance of high penalty & high-cost	Avoidance of high penalty & high-cost
Degeneracy	Occupied cells are less than (m+n-1)	Occupied cells are less than (m+n-1)
Stepping Stone Method	Unoccupied cells to achieve solution	Unoccupied cells to achieve solution

True/False

Question	Smallest element in each row is subtracted from each element in the column.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Terminologies of Graphical Method are :-
Correct Answer	Constraints , Graph of linear equality/inequality , Half Space
Your Answer	Constraints , Graph of linear equality/inequality , Half Space , Payoff

Multiple Choice Single Answer

Question	Feasible Region is :-
Correct Answer	Region defined by the Constraints & non-negative restrictions
Your Answer	Region defined by the Constraints & non-negative restrictions

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

True/False

Question	Allocations are independent when it is not possible to alter any individual allocations.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Participants of the game are :-
Correct Answer	Players , Decision maker
Your Answer	Players , Decision maker , Payoffs , Elements

True/False

Question	A game in which algebraic sum of gains of both the players after the play is not zero is called two person non zero sum game.
Correct Answer	True
Your Answer	True

Select The Blank

Question	A mixed strategy 2 x 2 game is solved by _____method.
Correct Answer	Algebraic
Your Answer	Linear programming

True/False

Question	Infeasibility is the condition in which the Linear Programming problem permits no feasible combination of the decision variables.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Every combination of strategies of players determines an outcomes called :-
Correct Answer	Pay off
Your Answer	Pay off

True/False

Question	Value of game to player II is negative of minimax value.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	In a standard minimization problem, objective is to :-
----------	--

Correct Answer Minimize total time. , Minimize total cost.

Your Answer Minimize total time. , Minimize total cost. , Find alternative optimal solution. , Allocate each task to each facility.

Multiple Choice Multiple Answer

Question Objects too can form queues as :-

Correct Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground

Your Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground , Finance

Select The Blank

Question The _____ is a method for deciding how to meet some desired objective which may be profit maximisation or cost minimization, subject to constraints on the amounts of commodities required or resources available.

Correct Answer Linear programming

Your Answer Linear programming

Multiple Choice Multiple Answer

Question Feasible solution formula contains :-

Correct Answer $m, n, 1, m, n, 3, n, 1, x$

Your Answer $m, n, 1, m, n, 3, n, 1, x, m, 1, p$

Select The Blank

Question Team approach needs for optimal solution of _____ Decisions.

Correct Answer Adaptive

Your Answer Adaptive

Multiple Choice Single Answer

Question Transportation Tableau is :-

Correct Answer Tabular arrangement of data on demand, capacity & per unit shipping costs bet. supply point to destination

Your Answer Tabular arrangement of data on demand, capacity & per unit shipping costs bet. supply point to destination

Multiple Choice Multiple Answer

Question Which of the following elements are used to construct the pay off matrix?

Correct Answer Pay off , strategies , Probabilities

Your Answer Pay off , strategies , Decision tree , Probabilities

Multiple Choice Multiple Answer

Question	Resource Management involves
Correct Answer	Man , Machines , Materials
Your Answer	Man , Machines , Materials , Work Orders

Multiple Choice Single Answer

Question	Last Step of Graphical Method of LP is :-
Correct Answer	Calculate the total profit / loss
Your Answer	Calculate the total profit / loss

True/False

Question	Effective improvement over the initial feasible solution is included in MODI.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x 2

True/False

Question	Surplus variable is a variable used to convert a Less than or equal to constraint into equality by subtracting it from left hand side of the constraint.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Extra row or column in tableau, with zero cost in each of its cells, used to balance an unbalanced problem is :-
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Multiple Answer

Question	Games theory can solve :-
Correct Answer	Two person's game , Two persons zero sum game , Two persons 3 x 3 game
Your Answer	Two person's game , N Person's game , Two persons zero sum game , Two persons 3 x 3 game

True/False

Question	Resulting payoff of optional strategies is called outcome.
Correct Answer	False
Your Answer	True

Select The Blank

Question	A row with higher elements is called _____ row.
Correct Answer	Dominating
Your Answer	Major

Select The Blank

Question	Constraint not affecting the feasible solution is _____.
Correct Answer	Redundant Constraint
Your Answer	Redundant Constraint

True/False

Question	Value of the subgame related to highest point in the feasible region is solution for $2 \times n$ game.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Special cases on simplex method are :-
Correct Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution
Your Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution , Payoffs

Select The Blank

Question	The _____ represents consequences of the interactions of the decision alternatives and the chance events.
Correct Answer	Outcomes
Your Answer	Outcomes

Select The Blank

Question	Number of customers in the queue plus those being serviced is _____.
Correct Answer	System Length
Your Answer	System Length

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
Correct Answer	Iteration
Your Answer	Iteration

Multiple Choice Multiple Answer

Question	Terms related to LCM are :-
Correct Answer	Initial feasible solution , Lowest Cost Cells , Next Lowest & so on
Your Answer	Initial feasible solution , Lowest Cost Cells , Next Lowest & so on , Finance Distribution

Multiple Choice Multiple Answer

Question	Value of game equals :-
Correct Answer	Saddle points , Weighted average of possible outcomes
Your Answer	Saddle points , Weighted average of possible outcomes , Zero , Value of any sum game

Multiple Choice Single Answer

Question	Expected gain to a player if he and his opponent use their best strategies is known as :-
Correct Answer	Value of game
Your Answer	Optimal strategy

Multiple Choice Multiple Answer

Question	Procedural steps in LCM are :-
Correct Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column
Your Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column , Prepare a Methodological report

Multiple Choice Single Answer

Question	A mixed strategy is decision of player to select :-
Correct Answer	Different strategies
Your Answer	Different strategies

Select The Blank

Question	Comparable Past Event & Forecasting Future Events Study is called _____
Correct Answer	Probability Theory
Your Answer	Probability Theory

Multiple Choice Single Answer

Question	Vogel's Approximation Method (VAM) is :-
Correct Answer	A systematic procedure to obtain an initial feasible solution based on avoidance of high penalty & cost cell
Your Answer	A systematic procedure to obtain an initial feasible solution based on avoidance of high penalty & cost cell

Multiple Choice Single Answer

Question	There are more than one optimal solutions to an assignment problem when :-
Correct Answer	Number of independent zeros are more than required ones.
Your Answer	Number of minimum lines covering all zeros are more than number of rows/columns

Multiple Choice Single Answer

Question	In an unbalanced assignment problem :-
Correct Answer	One or more facilities remain idle.
Your Answer	One or more facilities remain idle.

Multiple Choice Single Answer

Question	The column with the largest negative index number is :-
Correct Answer	Key Column
Your Answer	Key Column

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Match The Following

Question	Correct Answer	Your Answer
Political Risks	People Resistance	People Resistance
Financial Risks	ROI	Institution
Technical Risks	CAD / CAM	CAD / CAM
Functional Risks	HRD	HRD

Select The Blank

Question	Set of basic variables which are not restricted to equal '0' in current basic solution & listed in solution column is termed as _____.
Correct Answer	Basis
Your Answer	Simplex Method

Multiple Choice Single Answer

Question	In VAM, A stands for :-
Correct Answer	Approximation
Your Answer	Appropriate

Multiple Choice Single Answer

Question	Time spent by Service Facility to render the service to a Customer is :-
Correct Answer	Service time
Your Answer	Service time

True/False

Question	A game without a saddle point is called mixed strategy game.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	When an optimal solution is reached next step is to :-
----------	--

Correct Answer Mark a zero in a row with exclusive zero.

Your Answer Mark a zero in a row with exclusive zero.

Multiple Choice Multiple Answer

Question Terms relating to LP are :-

Correct Answer Constraints , Objective Function , Non-Negativity Condition

Your Answer Constraints , Objective Function , Non-Negativity Condition

Multiple Choice Single Answer

Question When process capability of a machine does not allow allocation of a particular job on the machine, the problem can be solved by :-

Correct Answer Prohibited assignment method

Your Answer Prohibited assignment method

True/False

Question Value of game to player II is negative of minimax value.

Correct Answer False

Your Answer False

Select The Blank

Question A Graph can be defined as _____.

Correct Answer Two-variable-linear-equation which is always a Straight Line

Your Answer Two-variable-linear-equation which is always a Straight Line

Multiple Choice Single Answer

Question Which of the following technique provides aid to sales staff while finalising a judgment forecast?

Correct Answer Forecasting

Your Answer Linear programming

True/False

Question Events must be mutually exclusive.

Correct Answer True

Your Answer True

Select The Blank

Question _____ is called Stepping Stone Method.

Correct Answer Unoccupied cells to achieve solution

Your Answer Unoccupied cells to achieve solution

Select The Blank

Question An assignment problem with machine capability constraint is an example of _____ assignment problem.

Correct Answer Prohibited

Your Answer Unbalanced

Multiple Choice Multiple Answer

Question Queues are formed at :-

Correct Answer Bus stand , Traffic lights , Telephone booths

Your Answer Bus stand , Traffic lights , Telephone booths

Select The Blank

Question To assign a task, a zero in a row/column with _____ zero is marked with square.

Correct Answer Exactly one

Your Answer Exactly one

True/False

Question The graphical method is simple to understand & easy to use

Correct Answer True

Your Answer True

Multiple Choice Single Answer

Question Unbounded Solution is :-

Correct Answer Permitted to be infinitely large

Your Answer Which does not define the boundaries of the feasible solution

Multiple Choice Multiple Answer

Question Procedural steps in VAM are :-

Correct Answer Selection of row or column , Allocation of number of units , Calculation of difference bet 2 element

Your Answer	Cash Flow & Fund flow statements , Selection of row or column
-------------	---

Multiple Choice Multiple Answer

Question	Which are applications of quantitative techniques in financial management?
Correct Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans
Your Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans

Match The Following

Question	Correct Answer	Your Answer
Graphical Method Step 4	LPP Formulation	LPP Formulation
Graphical Method Step 1	Identify Decision Variables	Identify Decision Variables
Graphical Method Step 2	Equation of Objective Function	Graph Objective Function
Graphical Method Step 3	Equation of Constraints	Equation of Constraints

Multiple Choice Single Answer

Question	Extra row or column in tableau, with zero cost in each of its cells, used to balance an unbalanced problem is :-
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Select The Blank

Question	SOPs provide necessary base to select optimal solution is known as _____.
Correct Answer	Mechanistic Decisions
Your Answer	Mechanistic Decisions

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

Select The Blank

Question	The _____ is a method for deciding how to meet some desired objective which may be profit maximisation or cost minimization, subject to constraints on the amounts of commodities required or resources available.
Correct Answer	Linear programming
Your Answer	Linear programming

Select The Blank

Question	The _____ is concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement of action.
Correct Answer	Games theory
Your Answer	Games theory

True/False

Question	Smallest element in each row is subtracted from each element in the column.
Correct Answer	False
Your Answer	False

Multiple Choice Multiple Answer

Question	Which are the typical areas of application of probability theory?
Correct Answer	Market research , Inventory control , Price movements
Your Answer	Market research , Budgeting

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False
Your Answer	False

Multiple Choice Single Answer

Question	Determination of Least Cost Route of Transportation of Goods from one plant to different warehouses is called :-
----------	--

Correct Answer	Transportation Model
Your Answer	Transportation Model

Multiple Choice Multiple Answer

Question	Games theory can solve :-
Correct Answer	Two person's game , Two persons zero sum game , Two persons 3 x 3 game
Your Answer	Two person's game , Two persons zero sum game , Two persons 3 x 3 game

Multiple Choice Single Answer

Question	Which technique replaces the age old intuitive and subjective approach of decision making by an analytical and an objective approach?
Correct Answer	Quantitative technique
Your Answer	Quantitative technique

True/False

Question	MODI Method is to evaluate water cells to achieve an optimal solution.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Terminology NOT related with Linear Programming are :-
Correct Answer	Players , Payoff , Payoff Matrics
Your Answer	Players , Payoff , Payoff Matrics

Multiple Choice Multiple Answer

Question	Study of Process Capability is not related to :-
Correct Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis
Your Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis

True/False

Question	Under Single Queue, Multiple Servers (Series), there is one queue but several servers in the service facility.
Correct Answer	True
Your Answer	True

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Queue length

True/False

Question	Quantitative techniques consider tangible as well as intangible factors.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Which of the following is not a statistical technique?
Correct Answer	Critical path analysis
Your Answer	Acceptance sampling

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x n

Multiple Choice Multiple Answer

Question	Game can have :-
Correct Answer	Mixed strategies , Pure strategies
Your Answer	Mixed strategies , Pure strategies

Select The Blank

Question	Graphical method is used to solve problems involving _____ unknowns.
Correct Answer	Two
Your Answer	Two

Multiple Choice Multiple Answer

Question	Various Quantitative Techniques are :-
----------	--

Correct Answer Linear Programming , Replacement Theory , Queuing Theory

Your Answer Linear Programming , Replacement Theory , Queuing Theory

True/False

Question Representation of customer behavior is reactions of the typical customers when confronted with a queue before the service facility.

Correct Answer True

Your Answer False

Select The Blank

Question Expected gain to a player, if he and & his opponent use their best strategy is called _____ of game.

Correct Answer Value

Your Answer Value

Multiple Choice Multiple Answer

Question Following concepts are not considered in Linear Programming :-

Correct Answer Maximum , Minimax , Saddle Point

Your Answer Saddle Point , Non-negativity Restrictions

concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Single Answer

Question	Expected gain from any mixed strategy equals :-
Correct Answer	Weighted average of possible out comes
Your Answer	Weighted average of possible out comes

Multiple Choice Single Answer

Question	Expected gain to a player I he and his opponent use their best strategies is known as :-
Correct Answer	Value of game
Your Answer	Value of game

Multiple Choice Multiple Answer

Question	Value of the pure strategy game is :-
Correct Answer	Maximin for player I , Negative minimax for player II
Your Answer	Maximin for player I , Negative minimax for player II

Select The Blank

Question	Transportation problem in which total capacity at supply points equals total demand at the destinations is
Correct Answer	Un-balanced Transportation Problem
Your Answer	Un-balanced Transportation Problem

Multiple Choice Single Answer

Question	Feasible Region is :-
Correct Answer	Region defined by the Constraints & non-negative restrictions
Your Answer	Region defined by the Constraints & non-negative restrictions

True/False

Question	Every Linear Programming problem does not have a unique optimal solution
Correct Answer	True
Your Answer	True

True/False

Question	Element at the intersection of the key row & key column is Key Element.
Correct Answer	True
Your Answer	True

True/False

Question	Step for the least count method is scrutinize transport costs & select the square with lowest cost.
Correct Answer	True
Your Answer	True

True/False

Question	Optimal Solution is a Feasible solution which optimizes the objective function.
Correct Answer	False
Your Answer	True

True/False

Question	Outcomes are usually expressed in economic terms.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Terms related to NCWM, VAM & LCM are :-
Correct Answer	Allocation of units , Upper left hand corner , High Penalty cost
Your Answer	Allocation of units , Upper left hand corner , High Penalty cost

Multiple Choice Multiple Answer

Question	Types of the Service Facilities are :-
Correct Answer	Single queue: Single server , Single queue: Multiple server , Single queue: Multiple server (Parallel)
Your Answer	Single queue: Single server , Single queue: Multiple server , Single queue: Multiple server (Parallel)

Match The Following

Question	Correct Answer	Your Answer
When number of lines covering all zeros equals no of rows/columns,	1	1

number of optimal solutions are.		
Cost at prohibited assignments	¥	¥
Cost of dummy row/column.	0	0
Multiply each element of maximization problem by.	-1	-1

Multiple Choice Single Answer

Question	Maximum element among the minimum elements selected for each row is called :-
Correct Answer	Maximum
Your Answer	Maximum

Select The Blank

Question	For determination of Least Cost Route _____ is used.
Correct Answer	Transportation Model
Your Answer	Transportation Model

Match The Following

Question	Correct Answer	Your Answer
Procedure of allocating units to cost	Least Cost Method	Least Cost Method
Extra row or column in a tableau	Dummy source or Destination	Dummy source or Destination
Satisfies supply & demand conditions	An Initial Feasible Solution	An Initial Feasible Solution
Procedure of allocating units to cells	North West Corner Method	North West Corner Method

Multiple Choice Single Answer

Question	A game in which there are more than 2 strategies available to both the players is known as :-
Correct Answer	Two person m x n game
Your Answer	Two person m x n game

Multiple Choice Multiple Answer

Question	Objects too can form queues as :-
Correct Answer	Broken down to be repaired , Blunt tools awaiting to be reground , Semi-finished job await next operation

Your Answer	Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground
-------------	---

Multiple Choice Single Answer

Question	Assignment problem is special case of :-
Correct Answer	Transportation problem
Your Answer	Transportation problem

True/False

Question	The decision nodes are depicted by circles.
Correct Answer	False
Your Answer	False

Multiple Choice Multiple Answer

Question	Queue Characteristics are :-
Correct Answer	Input distribution , Output distribution , Service discipline
Your Answer	Input distribution , Output distribution , Service discipline

Multiple Choice Multiple Answer

Question	Example of competitive situation in games theory are
Correct Answer	Two competing firms, try to snatch business , Military attacks
Your Answer	Two competing firms, try to snatch business , Military attacks

Multiple Choice Multiple Answer

Question	Game can have :-
Correct Answer	Mixed strategies , Pure strategies
Your Answer	Mixed strategies , Pure strategies

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x n

Select The Blank

Question	Number of customers in the queue plus those being serviced is
----------	---

	_____.
Correct Answer	System Length
Your Answer	System Length

Multiple Choice Single Answer

Question	A mixed strategy is decision of player to select :-
Correct Answer	Different strategies
Your Answer	Different strategies

Select The Blank

Question	Supply points does not equal demand is the case of _____
Correct Answer	Un-balanced Transportation Problem
Your Answer	Un-balanced Transportation Problem

Select The Blank

Question	Value of decision variables having either zero or positive is _____.
Correct Answer	Non-negativity restrictions
Your Answer	Non-negativity restrictions

Multiple Choice Multiple Answer

Question	Which of the following can be considered as a general rules for data collection in the decision making process?
Correct Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded
Your Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded

Multiple Choice Multiple Answer

Question	Terminologies of Decision Tree are :-
Correct Answer	Event nodes , Branches of Tree , Decision nodes
Your Answer	Outcomes & Risk , Event nodes , Branches of Tree , Decision nodes

Select The Blank

Question	An assignment problem with machine capability constraint is an example of _____ assignment problem.
Correct Answer	Prohibited
Your Answer	Prohibited

Select The Blank

Question	When both the players play their optimal strategies the resulting payoff is called _____ of game.
Correct Answer	Value
Your Answer	Value

Multiple Choice Single Answer

Question	Unbalanced assignment problem can be solved by :-
Correct Answer	Adding dummy task or facility.
Your Answer	Adding dummy task or facility.

Multiple Choice Single Answer

Question	Value of a game having saddle point equals :-
Correct Answer	Saddle point
Your Answer	Saddle point

Multiple Choice Multiple Answer

Question	Queues are formed at :-
Correct Answer	Bus stand , Traffic lights , Telephone booths
Your Answer	Bus stand , Traffic lights , Telephone booths

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
Correct Answer	Linear programming , Sequencing model , Breakeven analysis
Your Answer	Linear programming , Sequencing model , Breakeven analysis

True/False

Question	Personal decisions can affect the organisation and organisational decisions can affect the person.
Correct Answer	True

Your Answer	True
-------------	------

True/False

Question	Analytical decisions involve problems with limited number of decision variables.
----------	--

Correct Answer	False
----------------	-------

Your Answer	False
-------------	-------

Select The Blank

Question	To assign a task, a zero in a row/column with _____ zero is marked with square.
----------	---

Correct Answer	Exactly one
----------------	-------------

Your Answer	All
-------------	-----

Multiple Choice Single Answer

Question	Selection of random samples from a tot & inspection of the same is called :-
----------	--

Correct Answer	Acceptance Sampling
----------------	---------------------

Your Answer	Acceptance Sampling
-------------	---------------------

Multiple Choice Single Answer

Question	Only few customers may join Queue & some of them may demand service on their behalf, This action is called :-
----------	---

Correct Answer	Collusion
----------------	-----------

Your Answer	Collusion
-------------	-----------

Select The Blank

Question	Expected gain to a player, if he and & his opponent use their best strategy is called _____ of game.
----------	--

Correct Answer	Value
----------------	-------

Your Answer	Value
-------------	-------

True/False

Question	The graphical method is simple to understand & easy to use
----------	--

Correct Answer	True
----------------	------

Your Answer	True
-------------	------

Multiple Choice Multiple Answer

Question	Study of Comparable past events & forecasting future events is related to
Correct Answer	Probability Theory , Correlation & Regression Analysis , Statistical Process Control
Your Answer	Probability Theory

True/False

Question	Resulting payoff of optional strategies is called outcome.
Correct Answer	False
Your Answer	False

Select The Blank

Question	Maximin value sets _____ limit on game.
Correct Answer	Lower
Your Answer	Lower

Multiple Choice Single Answer

Question	In LCM, M stands for :-
Correct Answer	Method
Your Answer	Method

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

True/False

Question	Steps involved to solve a pure strategy game depends upon size of the game.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Which are applications of quantitative techniques in financial management?
Correct Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans
Your Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans

Select The Blank

Question	_____ is also an another name for Transportation Model.
Correct Answer	Distribution Model
Your Answer	Distribution Model

Multiple Choice Multiple Answer

Question	Set of Management & Engineering techniques related to failure risk relates to :-
Correct Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis
Your Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis

Multiple Choice Single Answer

Question	Number of Customers in the Queue plus those being serviced is :-
Correct Answer	System Length
Your Answer	System Length

True/False

Question	Capability of a machine does not allow certain jobs to be machined, the problem is of Prohibited assignment.
Correct Answer	True
Your Answer	True

Select The Blank

Question	Identify decision variables is _____ step of Graphical Method.
Correct Answer	First
Your Answer	First

Multiple Choice Multiple Answer

Question	Major methods to establish initial feasible solution are :-
Correct Answer	NCWM , VAM , LCM
Your Answer	VAM , LCM , NWCM

True/False

Question	Event nodes are depicted by squares.
Correct Answer	False
Your Answer	False

Select The Blank

Question	Set of basic variables which are not restricted to equal '0' in current basic solution & listed in solution column is termed as _____.
Correct Answer	Basis
Your Answer	Basis

Multiple Choice Multiple Answer

Question	Terms related to VAM are :-
Correct Answer	Initial feasible solution , High Penalty cost , High cost cells
Your Answer	Initial feasible solution , High Penalty cost , High cost cells

Select The Blank

Question	In a maximization problem when each element is subtracted from largest element, the resultant matrix indicates _____.
Correct Answer	Opportunity loss
Your Answer	Optimal solution

Select The Blank

Question	Constraint not affecting the feasible solution is _____.
----------	--

Correct Answer	Redundant Constraint
Your Answer	Redundant Constraint

Select The Blank

Question	One of the Element of Transportation Tableau is _____.
Correct Answer	Warehouses
Your Answer	Warehouses

True/False

Question	A two person game offering 2 strategies to each player is called 2x2 game.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Pure strategies art also called :-
Correct Answer	Minimax pure strategy , Maximin pure strategy , Optimal strategies
Your Answer	Minimax pure strategy , Maximin pure strategy , Optimal strategies

Multiple Choice Single Answer

Question	A table used to keep track of the calculations made at each iteration of the simplex procedure is :-
Correct Answer	Simplex Tableau
Your Answer	Simplex Tableau

Match The Following

Question	Correct Answer	Your Answer
Principle of insufficient reason	Laplace criteria	Laplace criteria
Dismal pessimism	Maximin criteria	Maximin criteria
Fantastic optimism	Maximax criteria	Maximax criteria
Midway approach considering coefficient of optimism	Hurwicz criteria	Hurwicz criteria

Multiple Choice Multiple Answer

Question	Rules concerning Objective Function are :-
Correct Answer	Must contain all variables in the constraints , Coefficient of slack variables are assumed to be zero , Coefficient of artificial variables are taken as -- M
Your Answer	Must contain all variables in the constraints , Coefficient of slack variables are assumed to be zero , Coefficient of artificial variables are taken as -- M

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative minimax

Multiple Choice Multiple Answer

Question	Feasible solution formula contains :-
Correct Answer	m , n , 1
Your Answer	m , n , 1

Multiple Choice Single Answer

Question	Which of the following is not a statistical technique?
Correct Answer	Critical path analysis
Your Answer	Critical path analysis

True/False

Question	Service time can be either fixed & balanced layouts or it can be variable.
Correct Answer	True
Your Answer	True

True/False

Question	A two person game in which gain of one person is loss to the other is called n person game.
Correct Answer	False
Your Answer	False

Multiple Choice Multiple Answer

Question	What is the application of quantitative techniques in maintenance management?
----------	---

Correct Answer	To decide optimum stocking policies of spares , Predict useful life of parts , To decide optimum replacement policy of parts
Your Answer	To decide optimum stocking policies of spares , Predict useful life of parts , To decide optimum replacement policy of parts

Multiple Choice Single Answer

Question	Graphical method is used to solve problems involving how many unknowns?
Correct Answer	Two
Your Answer	Two

Select The Blank

Question	The _____ are the points from which decision alternatives emerges branches of the tree.
Correct Answer	Decision modes
Your Answer	Decision modes

Multiple Choice Single Answer

Question	A variable used to convert a greater than or equal to constraint into equality by subtracting it from left hand side of the constraint is :-
Correct Answer	Surplus Variable
Your Answer	Surplus Variable

Multiple Choice Single Answer

Question	A Graph is :-
Correct Answer	Two-variable-linear-equation is always a Straight Line
Your Answer	Two-variable-linear-equation is always a Straight Line

Multiple Choice Single Answer

Question	The row with smallest replacement ratios of the constraint rows is known as :-
Correct Answer	Key row
Your Answer	Key row

Multiple Choice Single Answer

Question	Which of the following is example of personal decision?
Correct Answer	Works manager's decision to quit his post
Your Answer	Works manager's decision to quit his post

Match The Following

Question	Correct Answer	Your Answer
Shortest Route for Salesman	Traveling Problem	Traveling Problem
Order Quantity Allocation	Production Problem	Production Problem
Number of Employees	Staffing Problem	Staffing Problem
Aircraft & Crews	Routing Problem	Routing Problem

Select The Blank

Question	Team approach needs for optimal solution of _____ Decisions.
Correct Answer	Adaptive
Your Answer	Adaptive

Multiple Choice Multiple Answer

Question	Terms relating to LP are :-
Correct Answer	Constraints , Objective Function , Non-Negativity Condition
Your Answer	Constraints , Objective Function , Non-Negativity Condition

True/False

Question	If a mixed strategy game is bigger than 2x2 size, dominance rule is used to reduce the game.
Correct Answer	True
Your Answer	True

Select The Blank

Question	LP or Graphical method is useful when a LP problem involves _____ Variables.
Correct Answer	Two
Your Answer	Two

Multiple Choice Multiple Answer

Question	Value of game equals :-
Correct Answer	Saddle points , Weighted average of possible outcomes
Your Answer	Saddle points , Weighted average of possible outcomes

Multiple Choice Single Answer

Question	A row in the simplex table whose elements represent net contribution loss per unit if one unit of jth variables is brought into the solution is :-
Correct Answer	(Zj-Cj) row (or index row)
Your Answer	(Zj-Cj) row (or index row)

Multiple Choice Multiple Answer

Question	Elements of Transportation Model are :-
Correct Answer	Plants , Warehouses , Supply & Demand
Your Answer	Plants , Warehouses , Supply & Demand

True/False

Question	In pure strategies game, maximin / minimax strategies are called optional strategies.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Linear Programming select specific investments from alternatives so as to maximize return & minimize risk is :-
Correct Answer	Portfolio Selection
Your Answer	Portfolio Selection

Select The Blank

Question	A row with higher elements is called _____ row.
Correct Answer	Dominating
Your Answer	Dominating

Multiple Choice Single Answer

Question	In NWCM, C stands for :-
Correct Answer	Corner
Your Answer	Corner

Multiple Choice Single Answer

Question	In VAM, V stands for :-
----------	-------------------------

Correct Answer	Vogel
----------------	-------

Your Answer	Vogel
-------------	-------

Select The Blank

Question	SOPs provide necessary base to select optimal solution is known as _____.
----------	---

Correct Answer	Mechanistic Decisions
----------------	-----------------------

Your Answer	Mechanistic Decisions
-------------	-----------------------

Multiple Choice Multiple Answer

Question	LP can be used to solve the problems of :-
----------	--

Correct Answer	Production , Materials , Marketing
----------------	------------------------------------

Your Answer	Production , Materials , Marketing
-------------	------------------------------------

True/False

Question	Decision of players I to play row corresponding to $\max (m_i)$ is called minimax pure strategy.
----------	--

Correct Answer	False
----------------	-------

Your Answer	False
-------------	-------

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Multiple Answer

Question	Terminologies of simplex method are :-
Correct Answer	Cj row , Zj row , (Zj-Cj) row
Your Answer	(Zj-Cj) row , Cj row , Zj row

Multiple Choice Multiple Answer

Question	Transportation Tableau is a Data on :-
Correct Answer	Demand , Capacity , Unit Shipping Cost
Your Answer	Demand , Capacity , Unit Shipping Cost

True/False

Question	A redundant constraint is necessary for the solution to the problem & therefore can be omitted at the time of formulation of the problem.
Correct Answer	False
Your Answer	False

Multiple Choice Multiple Answer

Question	Rules concerning Constraints are :-
Correct Answer	Less than or equal to are reduced to equations by adding slack variable , Greater than or equal to are converted to equation by adding slack variable , Equal to are augmented by adding artificial variable
Your Answer	Less than or equal to are reduced to equations by adding slack variable , Greater than or equal to are converted to equation by adding slack variable , Equal to are augmented by adding artificial variable

True/False

Question	Variable used to convert a greater than equal to constraint into equality by subtracting it from left hand side of the constraint is Surplus Variable.
Correct Answer	True
Your Answer	True

Select The Blank

Question	A very high cost at prohibited combinations are indicated by _____ sign.
----------	--

Correct Answer	¥
Your Answer	0

Select The Blank

Question	A game in which there are two competing parties is called _____ game.
Correct Answer	2 person
Your Answer	2 person

Multiple Choice Multiple Answer

Question	Procedural steps in VAM are :-
Correct Answer	Calculation of difference bet 2 element , Selection of row or column , Allocation of number of units
Your Answer	Calculation of difference bet 2 element , Selection of row or column , Allocation of number of units

Select The Blank

Question	_____ is an extra row in tableau, with zero cost in each of its cells, used to balance an unbalanced problem
Correct Answer	Dummy source
Your Answer	Dummy source

Multiple Choice Single Answer

Question	After reducing the payoff matrix by dominance rule resulting matrix is m x 2, next step to solve is :-
Correct Answer	Solve game using sub game method
Your Answer	Solve game using sub game method

Select The Blank

Question	ISO-9001 QMS is for _____.
Correct Answer	Quality System
Your Answer	Quality System

Multiple Choice Single Answer

Question	Which of the following criteria is used to classify the managerial decisions into personal and organizational decisions?
Correct Answer	Capacity in which decisions are taken
Your Answer	Capacity in which decisions are taken

Multiple Choice Single Answer

Question	In a pure strategy game if there are two maximin values, then the no optimal strategies for players and is :-
Correct Answer	Two
Your Answer	Zero

Multiple Choice Multiple Answer

Question	Special cases on simplex method are :-
Correct Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution
Your Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution

Select The Blank

Question	Minimax value sets _____ limit on game.
Correct Answer	Upper
Your Answer	Lower

True/False

Question	Transportation tableau construction is to present the information in the form of transportation tableau.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

Multiple Choice Single Answer

Question	In NWCM, N stands for :-
Correct Answer	North
Your Answer	North

Match The Following

Question	Correct Answer	Your Answer
Probability of player II to select strategy II	First column diff. / sum of column diff.	Sum of column diff. / sum of row diff.

Probability of player I to select strategy I	Second row diff. / sum of row diff.	First row diff. / sum of row diff.
Probability of player I to select strategy II	First row diff. / sum of row diff.	First column diff. / sum of column diff.
Probability of player II to select strategy I	Second column diff. / sum of column diff.	Second column diff. / sum of column diff.

Select The Blank

Question	A game in which gain of person is loss of the other player is called _____ game.
Correct Answer	Zero sum
Your Answer	Zero sum

Multiple Choice Single Answer

Question	A customer may keep on switching from one Queue to another due to more service counters. This tendency is called :-
Correct Answer	Jockeying
Your Answer	Jockeying

Multiple Choice Single Answer

Question	Linear Programming find the combination of components to be produced from standard raw material sizes in order to keep Trim loss to minimum is called as :-
Correct Answer	Trim Loss Problems
Your Answer	Trim Loss Problems

Select The Blank

Question	Another name of Un-occupied Cells is _____.
Correct Answer	Water Cells
Your Answer	Water Cells

Multiple Choice Single Answer

Question	Last Step of Graphical Method of LP is :-
Correct Answer	Calculate the total profit / loss
Your Answer	Calculate the total profit / loss

Match The Following

Question	Correct Answer	Your Answer
----------	----------------	-------------

A formalized systematic procedure for solving problems is	Algorithm Concept	Algorithm Concept
An algorithm for solving LP problems which starts with zero solution	Simplex Method	Simplex Method
In Simplex method, the point of maximum must lie at	One of corner point	One of corner point
The variables with positive zero values are called	Non-basic Variables	Non-basic Variables

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
Correct Answer	Problem Formulation
Your Answer	Problem Formulation

Multiple Choice Single Answer

Question	In pure strategy games players :-
Correct Answer	Stick to this strategies
Your Answer	Stick to this strategies

True/False

Question	In an unbalanced assignment problem certain assignment can not be made because of restriction to allocation.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Basic Elements of Queuing System are :-
Correct Answer	Input process , Waiting line , Service discipline
Your Answer	Input process , Waiting line , Service discipline

True/False

Question	Graphical method is restricted to two variables.
Correct Answer	True
Your Answer	True

True/False

Question	Effective improvement over the initial feasible solution is included in MODI.
Correct Answer	True
Your Answer	True

Select The Blank

Question	Unbounded Solution is one which is _____.
Correct Answer	Permitted to be infinitely large
Your Answer	Permitted to be infinitely large

Multiple Choice Multiple Answer

Question	Saddle points equals to :-
Correct Answer	Assigning task to facility , Maximin
Your Answer	Assigning task to facility , Maximin

Select The Blank

Question	_____ is an extra row or column in a tableau.
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

True/False

Question	In a mixed strategy game players play more than one strategy to optimize the gain.
Correct Answer	True
Your Answer	True

True/False

Question	Under Single Queue, Multiple Servers (Series), there is one queue but several servers in the service facility.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Various Quantitative Techniques are :-
----------	--

Correct Answer	Linear Programming , Replacement Theory , Queuing Theory
----------------	--

Your Answer	Linear Programming , Replacement Theory , Queuing Theory
-------------	--

Select The Blank

Question	Managerial decisions can be classified on basis of frequency of occurrence of problem as basic decisions and _____.
----------	---

Correct Answer	Routine decisions
----------------	-------------------

Your Answer	Routine decisions
-------------	-------------------

Multiple Choice Single Answer

Question	What do you mean by the decisions based on operating procedures evolved in the past for handling problems at the appropriate level?
----------	---

Correct Answer	Programmed decisions
----------------	----------------------

Your Answer	Programmed decisions
-------------	----------------------

Multiple Choice Multiple Answer

Question	Various step in simplex method are :-
----------	---------------------------------------

Correct Answer	Construct a LP model of the problem , Augment constraints , Rewrite objective function
----------------	--

Your Answer	Construct a LP model of the problem , Augment constraints , Rewrite objective function
-------------	--

True/False

Question	By application of dominance rule final solution is affected.
----------	--

Correct Answer	False
----------------	-------

Your Answer	False
-------------	-------

Multiple Choice Single Answer

Question	An extra variable added to obtain an initial feasible solution to a Linear Programming problem is called :-
----------	---

Correct Answer	Artificial Variable
----------------	---------------------

Your Answer	Artificial Variable
-------------	---------------------

Multiple Choice Multiple Answer

Question	Problems involved in Mixed Constraints are :-
----------	---

Correct Answer	Objective Function is either Maximization or Minimization , All constraints are less than or equal , All variables are non-negative
----------------	---

Your Answer	All constraints are less than or equal , All variables are non-negative , All variables are zero
-------------	--

Multiple Choice Single Answer

Question	Solution satisfying supply & demand conditions & yet may not be optimal is :-
Correct Answer	An Initial Feasible Solution
Your Answer	An Initial Feasible Solution

Multiple Choice Single Answer

Question	In Simplex method, the point of maximum must lie at :-
Correct Answer	One of the corner point
Your Answer	One of the corner point

Multiple Choice Multiple Answer

Question	Which are the typical areas of application of forecasting?
Correct Answer	Materials control , Loading and scheduling , Budgeting
Your Answer	Materials control , Loading and scheduling , Budgeting

Multiple Choice Multiple Answer

Question	Which of the following three basic criterias are used to check each alternative during evaluation stage of decision making process?
Correct Answer	Adverse consequences , Must objectives , Want objectives
Your Answer	Adverse consequences , Must objectives , Want objectives

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Select The Blank

Question	To assign a task, a zero in a row/column with _____ zero is marked with square.
Correct Answer	Exactly one
Your Answer	Exactly one

Select The Blank

Question	Transportation Tableau gives _____.
Correct Answer	Data on shipping costs
Your Answer	Data on shipping costs

True/False

Question	In a traveling salesman problem, salesman can visit same city twice before all the cities are covered.
Correct Answer	False
Your Answer	False

Select The Blank

Question	The _____ are the points from which decision alternatives emerges branches of the tree.
Correct Answer	Decision modes
Your Answer	Decision modes

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
Correct Answer	Problem Formulation
Your Answer	Problem Formulation

Multiple Choice Single Answer

Question	Which technique replaces the age old intuitive and subjective approach of decision making by an analytical and an objective approach?
Correct Answer	Quantitative technique
Your Answer	Quantitative technique

Multiple Choice Multiple Answer

Question	Which are applications of quantitative techniques in financial management?
Correct Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans
Your Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans

Select The Blank

Question	Value of pure strategy game, to player I is _____
Correct Answer	Maximin
Your Answer	Maximin

Multiple Choice Multiple Answer

Question	Combination of strategies of players determines :-
Correct Answer	Outcomes , Payoff
Your Answer	Outcomes , Payoff

Multiple Choice Multiple Answer

Question	Types of variables in Simplex Method are :-
Correct Answer	Slack Variable , Surplus Variable , Artificial Variable
Your Answer	Slack Variable , Surplus Variable , Artificial Variable

Multiple Choice Multiple Answer

Question	Elements of Transportation Model are :-
Correct Answer	Plants , Warehouses , Supply & Demand
Your Answer	Plants , Warehouses

True/False

Question	In pure strategies game, maximin / minimax strategies are called optional strategies.
Correct Answer	True
Your Answer	False

True/False

Question	Feasible solution must have $(m+n-1)$ allocations.
----------	--

Correct Answer True

Your Answer False

Multiple Choice Multiple Answer

Question Transportation Tableau is a Data on :-

Correct Answer Demand , Capacity , Unit Shipping Cost

Your Answer Demand , Capacity , Unit Shipping Cost

Multiple Choice Single Answer

Question Disadvantage of Graphical Method is :-

Correct Answer Restricted to two variables

Your Answer Restricted to two variables

Multiple Choice Multiple Answer

Question What is expected to be established when facts are analysed after collection of data in the decision making process?

Correct Answer Qualitative considerations to take overall view of business , The length of time to which the decision should apply , Effect of decision on other functional areas

Your Answer Qualitative considerations to take overall view of business , The length of time to which the decision should apply , To check the authenticity of facts

Multiple Choice Multiple Answer

Question Study of Comparable past events & forecasting future events is related to

Correct Answer Probability Theory , Correlation & Regression Analysis , Statistical Process Control

Your Answer Probability Theory

Multiple Choice Single Answer

Question When there are restrictions to assignment of a task to particular facility :-

Correct Answer Very high costs are assigned to prohibited combinations

Your Answer A dummy row/column with zero costs is added

True/False

Question The decision nodes are depicted by circles.

Correct Answer False

Your Answer False

Select The Blank

Question Expected gain to a player, if he and & his opponent use their best strategy is called _____ of game.

Correct Answer Value

Your Answer Value

Match The Following

Question	Correct Answer	Your Answer
Queuing theory	Waiting lines formed in offices and factories	Waiting lines formed in offices and factories
Line of balance	WIP inventory control	WIP inventory control
Critical path analysis	Project scheduling	Project scheduling
Decision theory	Site selection	Site selection

Select The Blank

Question The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____

Correct Answer Collusion

Your Answer Collusion

Multiple Choice Single Answer

Question Which of the following is example of personal decision?

Correct Answer Works manager's decision to quit his post

Your Answer Works manager's decision to quit his post

True/False

Question Though graphical method can deal with any number of a constraints but since each constraint is shown as a line on a graph, a large number of lines make the graph difficult to read.

Correct Answer True

Your Answer True

Multiple Choice Single Answer

Question Decision of a player to play row corresponding to maximin value is called :-

Correct Answer Maximin Pure strategy

Your Answer Maximin Pure strategy

Multiple Choice Single Answer

Question Optimal Solution is :-

Correct Answer That point or points in the feasible region that gives the optimal values of the objective function

Your Answer That point or points in the feasible region that gives the optimal values of the objective function

Multiple Choice Multiple Answer

Question Today's Business has constraints like :-

Correct Answer Raw Material , Shortage of Production , Limitations of Warehouses

Your Answer Raw Material , Shortage of Production , Limitations of Warehouses

True/False

Question Transportation tableau construction is to present the information in the form of transportation tableau.

Correct Answer True

Your Answer True

Select The Blank

Question Transportation problem in which total capacity at supply points equals total demand at the destinations is _____

Correct Answer Un-balanced Transportation Problem

Your Answer Balanced Transportation Problem

Multiple Choice Single Answer

Question Solution satisfying supply & demand conditions & yet may not be optimal is :-

Correct Answer An Initial Feasible Solution

Your Answer An Initial Feasible Solution

Multiple Choice Single Answer

Question If P_{ij} represent element in each column, than minimax value of game is :-

Correct Answer $\min(\max p_{ij})$

Your Answer $\min P_{ij}$

Multiple Choice Multiple Answer

Question	Resource Management involves :-
Correct Answer	Man , Machines , Materials
Your Answer	Man , Machines , Materials

Select The Blank

Question	The _____ are those in which the outcome of the first decision affects the desirability of the choices at the next decision.
Correct Answer	Multi stage decisions
Your Answer	Analytical decisions

True/False

Question	If a mixed strategy game is bigger than 2x2 size, dominance rule is used to reduce the game.
Correct Answer	True
Your Answer	True

Select The Blank

Question	LP decide on product quantities to maximize profit is _____.
Correct Answer	Product Mix Problems
Your Answer	Product Mix Problems

Match The Following

Question	Correct Answer	Your Answer
Shortest Route for Salesman	Traveling Problem	Traveling Problem
Order Quantity Allocation	Production Problem	Production Problem
Number of Employees	Staffing Problem	Staffing Problem
Aircraft & Crews	Routing Problem	Routing Problem

Multiple Choice Single Answer

Question	When an optimal solution is reached next step is to :-
Correct Answer	Mark a zero in a row with exclusive zero.
Your Answer	Mark a zero in a row with exclusive zero.

Multiple Choice Multiple Answer

Question	Procedural steps in LCM are :-
Correct Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column
Your Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column

True/False

Question	System output refers to the rate at which customers are rendered service.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative minimax

Multiple Choice Multiple Answer

Question	Words related to VAM are :-
Correct Answer	Vogel's , Method , Approximation
Your Answer	Vogel's , Method , Approximation

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Multiple Answer

Question	Various Types of Problems related to Linear Programming are
Correct Answer	Routing Problems , Transportation Problems , Product Mix Problems
Your Answer	Routing Problems , Transportation Problems , Product Mix Problems

True/False

Question	Mechanistic decisions involve problems with limited number of decision variables.
----------	---

Correct Answer	True
Your Answer	True

True/False

Question	Minimax vale of the game sets upper limit to the value of the game.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Which of the decision theory model indicates the situations where consequences of each act of decision maker are influenced by acts of opponent?
Correct Answer	Competitive strategies
Your Answer	Competitive strategies

Select The Blank

Question	Pair of values (x,y) of decision variables that satisfy constraints is _____
Correct Answer	Feasible Solution
Your Answer	Feasible Solution

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

True/False

Question	Divisibility means that the variables are restricted to integer values.
Correct Answer	False
Your Answer	False

True/False

Question	Every constraint in a LP problem defines a certain portion of the boundary of the solution region.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	In pure strategy game :-
Correct Answer	Players stay with one strategy , Probability of pure strategy is
Your Answer	Players stay with one strategy

Multiple Choice Single Answer

Question	Systematic procedure evaluating water cells to achieve an optimal solution :-
Correct Answer	MODI Method
Your Answer	MODI Method

Select The Blank

Question	_____ is the last step of Graphical Method of LP.
Correct Answer	Calculate the total profit / loss
Your Answer	Calculate the total profit / loss

Multiple Choice Single Answer

Question	An Objective Function represents :-
Correct Answer	The mathematical equation of the major goal of the system in terms of unknown called decision variables
Your Answer	The mathematical equation of the major goal of the system in terms of unknown called decision variables

Multiple Choice Single Answer

Question	Determination of Least Cost Route of Transportation of Goods from one plant to different warehouses is called :-
Correct Answer	Transportation Model
Your Answer	Transportation Model

True/False

Question	To construct a pay off matrix the decision alternatives are placed column head wise.
Correct Answer	False
Your Answer	True

True/False

Question	Minimax vale of the game sets upper limit to the value of the game.
Correct Answer	True
Your Answer	True

Select The Blank

Question	_____ is a systematic procedure to evaluate unoccupied cells for optimal solution.
Correct Answer	Stepping Stone Method
Your Answer	Stepping Stone Method

Multiple Choice Multiple Answer

Question	Which of the following can be considered as a general rules for data collection in the decision making process?
Correct Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded
Your Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded

Multiple Choice Multiple Answer

Question	Terms related to NWCM are :-
Correct Answer	Initial feasible solution , Allocation of units , Upper left hand corner

Your Answer	Initial feasible solution , Allocation of units , Upper left hand corner
-------------	--

Select The Blank

Question	The _____ is a method for deciding how to meet some desired objective which may be profit maximisation or cost minimization, subject to constraints on the amounts of commodities required or resources available.
Correct Answer	Linear programming
Your Answer	Linear programming

Multiple Choice Single Answer

Question	Which of the following is not a statistical technique?
Correct Answer	Critical path analysis
Your Answer	Critical path analysis

Multiple Choice Multiple Answer

Question	What is the application of quantitative techniques in maintenance management?
Correct Answer	To decide optimum stocking policies of spares , Predict useful life of parts , To decide optimum replacement policy of parts
Your Answer	To decide optimum stocking policies of spares , Predict useful life of parts , To decide optimum replacement policy of parts

Multiple Choice Multiple Answer

Question	Procedural steps in VAM are :-
Correct Answer	Calculation of difference bet 2 element , Selection of row or column , Allocation of number of units
Your Answer	Calculation of difference bet 2 element , Selection of row or column , Allocation of number of units

Multiple Choice Single Answer

Question	In NWCM, M stands for :-
Correct Answer	Method
Your Answer	Method

Multiple Choice Single Answer

Question	The column with the largest negative index number is :-
Correct Answer	Key Column
Your Answer	Key Column

Select The Blank

Question	A row with lower elements is called _____ row.
Correct Answer	Dominated
Your Answer	Minor

True/False

Question	Row with the smallest of the replacement ratios of the constraint rows is Key Row.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Which are the typical areas of application of forecasting?
Correct Answer	Materials control , Loading and scheduling , Budgeting
Your Answer	Materials control , Budgeting

Multiple Choice Multiple Answer

Question	Terms related to Stepping Stone Method are :-
Correct Answer	Systematic procedure , Unoccupied Cells , Optimal Solution
Your Answer	Systematic procedure , Unoccupied Cells , Optimal Solution

Multiple Choice Multiple Answer

Question	Resource Management involves :-
Correct Answer	Man , Machines , Materials
Your Answer	Man , Machines , Materials

Select The Blank

Question	Transportation Tableau gives _____.
Correct Answer	Data on shipping costs
Your Answer	Data on shipping costs

Select The Blank

Question	In VAM, _____ is long form of A.
Correct Answer	Approximation

Your Answer	Approximation
-------------	---------------

Select The Blank

Question	A game in which there are two competing parties is called _____ game.
Correct Answer	2 person
Your Answer	2 person

Multiple Choice Single Answer

Question	The element at the intersection of key row & key column is :-
Correct Answer	Key element
Your Answer	Intersecting element

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
Correct Answer	Linear programming , Sequencing model , Breakeven analysis
Your Answer	Linear programming , Sequencing model , Breakeven analysis

Match The Following

Question	Correct Answer	Your Answer
Feasible Region	Defined by Constraints	Defined by Constraints
Corner Points	Points of Intersection	Points of Intersection
Feasible Solution	Satisfy Constraints	Satisfy Constraints
Optimal solution	Optimal Clause of Objective	Optimal Clause of Objective

Select The Blank

Question	A mixed strategy 2 x 2 game is solved by _____ method.
Correct Answer	Algebraic
Your Answer	Sub game

Select The Blank

Question	Set of basic variables which are not restricted to equal '0' in current basic solution & listed in solution column is termed as _____.
----------	--

Correct Answer	Basis
Your Answer	Simplex Tableau

True/False

Question	In a maximization problem, each element is subtracted from largest element in the matrix and problem is solved as a minimization problem.
Correct Answer	True
Your Answer	True

Match The Following

Question	Correct Answer	Your Answer
Optimal Solution	Optimizing Objective Function	Optimizing Objective Function
Decision Variable	Unknown to be Determined	Unknown to be Determined
Constraints	Mathematical Equation of Limitation	Mathematical Equation of Limitation
Objective Function	Mathematical Equation of Major Goals	Mathematical Equation of Major Goals

Multiple Choice Single Answer

Question	What is MODI Method?
Correct Answer	A systematic procedure for evaluating unoccupied (water) cells to achieve an optimal solution
Your Answer	A systematic procedure for evaluating unoccupied (water) cells to achieve an optimal solution

Multiple Choice Single Answer

Question	Un-balanced Transportation Problem is :-
Correct Answer	Transportation problem in which total capacity at supply point doesn't equal the total demand at the destinations
Your Answer	Transportation problem in which total capacity at supply point doesn't equal the total demand at the destinations

Multiple Choice Single Answer

Question	Linear Programming develop a work schedule to meet staff needs at all hours with minimum number of employees is called as :-
Correct Answer	Staffing Problems
Your Answer	Staffing Problems

Multiple Choice Single Answer

Question	An extra variable added to obtain an initial feasible solution to a Linear Programming problem is called :-
Correct Answer	Artificial Variable
Your Answer	Slack Variable

True/False

Question	Quantitative techniques are usually associated with high costs.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Basic assumption in a play are :-
Correct Answer	Choice of strategy by players is simultaneous , No player knows choice of his opponent
Your Answer	Strategies are always pure , Choice of strategy by players is simultaneous , Strategies are always mixed

Multiple Choice Multiple Answer

Question	Game can have :-
Correct Answer	Mixed strategies , Pure strategies
Your Answer	Mixed strategies , Pure strategies

Multiple Choice Single Answer

Question	Which technique replaces the age old intuitive and subjective approach of decision making by an analytical and an objective approach?
Correct Answer	Quantitative technique
Your Answer	Programming technique

Select The Blank

Question	The _____ is concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement of action.
Correct Answer	Games theory
Your Answer	Games theory

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
----------	---

Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
Correct Answer	Algorithm , Iteration , Slack variable
Your Answer	Algorithm , Iteration , Slack variable

True/False

Question	System output refers to the rate at which customers are rendered service.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Feasible Solution is :-
Correct Answer	Pair of Values (x,y) of the decision variables that satisfy constraints
Your Answer	Constraints & non-negative restrictions of the Linear Programming problem

True/False

Question	Allocations are independent when it is not possible to alter any individual allocations.
Correct Answer	True
Your Answer	True

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Multiple Answer

Question	Queues are formed at :-
Correct Answer	Telephone booths , Bus stand , Traffic lights
Your Answer	Bus stand , Traffic lights , Telephone booths

Multiple Choice Multiple Answer

Question	Specification of the constraints are :-
Correct Answer	Vendors , Available Hours , Space
Your Answer	Vendors , Space , Materials

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative maximin

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

Multiple Choice Single Answer

Question	Assignment technique is useful in a situation where :-
Correct Answer	Certain number of tasks are required to be attached to equal number of facilities
Your Answer	Certain number of tasks are required to be assigned to one facility

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Mean arrival rate

Select The Blank

Question	Identify decision variables is _____ step of Graphical Method.
----------	--

Correct Answer	First
----------------	-------

Your Answer	First
-------------	-------

True/False

Question	If a Linear Programming problem has no solution that satisfies all constraints, it is said to be feasible.
----------	--

Correct Answer	True
----------------	------

Your Answer	False
-------------	-------

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
----------	---

Correct Answer	True
----------------	------

Your Answer	True
-------------	------

Multiple Choice Single Answer

Question	Saddle point occurs when :-
----------	-----------------------------

Correct Answer	Maximin = Minimax
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Your Answer	Maximin > Minimax
-------------	-------------------

Multiple Choice Single Answer

Question	Decision Variables are :-
----------	---------------------------

Correct Answer	The unknowns to be determined from the solution to the model
----------------	--

Your Answer	The unknowns to be determined from the solution to the model
-------------	--

Multiple Choice Single Answer

Question	Graphical method can deal with :-
----------	-----------------------------------

Correct Answer	Any number of constraints
----------------	---------------------------

Your Answer	Two constraints
-------------	-----------------

Multiple Choice Multiple Answer

Question	Nomenclatures related to Transportation Problem are :-
----------	--

Correct Answer	S , P , W
----------------	-----------

Your Answer	S , P , W
-------------	-----------

Multiple Choice Multiple Answer

Question	In solution of an assignment problem a row with zero costs is added and all the elements are multiplied by - 1, then the problem is of nature :-
----------	--

Correct Answer	Unbalance assignment. , Maximization.
Your Answer	Prohibited assignments , Unbalance assignment. , Maximization.

Select The Blank

Question	A_____ is a graphic device to depict the sequence of decision to be made and the possible events that may occur.
Correct Answer	Decision tree
Your Answer	Decision tree

Select The Blank

Question	Terminology for Service Distribution is _____
Correct Answer	FCFS or LCFS
Your Answer	FIFO or LIFO

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

True/False

Question	Compute row & column values for stone squares is step for MODI method.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False

Your Answer	True
-------------	------

Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
----------	--

Correct Answer	Algorithm , Iteration , Slack variable
----------------	--

Your Answer	Algorithm , Minimax , Iteration
-------------	---------------------------------

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
----------	--

Correct Answer	Problem Formulation
----------------	---------------------

Your Answer	Problem Formulation
-------------	---------------------

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
----------	---

Correct Answer	Linear programming , Sequencing model , Breakeven analysis
----------------	--

Your Answer	Linear programming , Sequencing model , Breakeven analysis
-------------	--

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the top management as a policy?
----------	--

Correct Answer	Policy decisions
----------------	------------------

Your Answer	Policy decisions
-------------	------------------

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Multiple Answer

Question	Queues are formed at :-
----------	-------------------------

Correct Answer	Telephone booths , Bus stand , Traffic lights
----------------	---

Your Answer	Telephone booths , Bus stand , Traffic lights
-------------	---

Multiple Choice Multiple Answer

Question	Specification of the constraints are :-
----------	---

Correct Answer	Vendors , Available Hours , Space
----------------	-----------------------------------

Your Answer	Vendors , Space , Materials
-------------	-----------------------------

Multiple Choice Single Answer

Question	Which of the following is an example of a policy decision?
Correct Answer	Increment and promotion policy
Your Answer	Increment and promotion policy

Multiple Choice Multiple Answer

Question	Basic assumption in a play are :-
Correct Answer	Choice of strategy by players is simultaneous , No player knows choice of his opponent
Your Answer	Strategies are always pure , Choice of strategy by players is simultaneous , Strategies are always mixed

True/False

Question	A 2x2 mixed strategy game is solved by algebraic method.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	When number of tasks and number of facilities are not equal :-
Correct Answer	Some tasks may remain unassigned. , Some facilities may remain idle.
Your Answer	Some tasks may remain unassigned. , Some facilities may remain idle.

Multiple Choice Single Answer

Question	A row in the simplex table whose elements represent the decrease in the value of the objective function if one unit of jth variables is brought into the solution is :-
Correct Answer	Z_j row
Your Answer	$(Z_j - C_j)$ row (or index row)

Select The Blank

Question	_____ is an extra row or column in a tableau.
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Multiple Answer

Question	Which of the following are examples of tactical decisions?
Correct Answer	Loading and scheduling of jobs , Acceptance or rejection of excess quantity against delivery schedule , Splitting of raw material requirement among suppliers
Your Answer	Loading and scheduling of jobs , Acceptance or rejection of excess quantity against delivery schedule , Launching of a new product

True/False

Question	Adaptive decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	True

Select The Blank

Question	Positive non-zero values variables are called _____.
Correct Answer	Basic Variables
Your Answer	Basic Variables

Multiple Choice Multiple Answer

Question	Terminology NOT related with Linear Programming are :-
Correct Answer	Players , Payoff , Payoff Matrics
Your Answer	Objective Function

True/False

Question	Traffic intensity is product of average arrival rate & average service rate.
Correct Answer	False
Your Answer	True

Select The Blank

Question	Constraint not affecting the feasible solution is _____.
Correct Answer	Redundant Constraint
Your Answer	Redundant Constraint

Multiple Choice Single Answer

Question	Solution satisfying supply & demand conditions & yet may not be optimal is :-
Correct Answer	An Initial Feasible Solution
Your Answer	An Initial Feasible Solution

True/False

Question	Value of the subgame related to highest point in the feasible region is solution for $2 \times n$ game.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	The slack variables must take :-
Correct Answer	Positive Values
Your Answer	Both Values

Multiple Choice Multiple Answer

Question	Study of Process Capability is not related to :-
Correct Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis
Your Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis

Match The Following

Question	Correct Answer	Your Answer
Intersecting element is	The element at the intersection of other than key row & key column	The element at the intersection of key row & key column
Key Column is	The column with the largest negative index number	Row at the intersection of key row & key column
Key row is	The row with the smallest of the replacement ratios of the constraint rows	The row with the smallest of the replacement ratios of the constraint rows
Key element is	The element at the intersection of key row & key column	The element at the intersection of other than key row & key column

Multiple Choice Multiple Answer

Question	Which of the following are examples of basic decisions?
Correct Answer	Product mix , Plant location , Organisation structure
Your Answer	Decision on loan application by an employee , Plant location , Organisation structure

Select The Blank

Question	SOPs provide necessary base to select optimal solution is known as _____.
Correct Answer	Mechanistic Decisions
Your Answer	Analytical Decisions

Match The Following

Question	Correct Answer	Your Answer
Feasible Region	Defined by Constraints	Optimal Clause of Objective

Corner Points	Points of Intersection	Satisfy Constraints
Feasible Solution	Satisfy Constraints	Defined by Constraints
Optimal solution	Optimal Clause of Objective	Upper Limit

True/False

Question	LP problem cannot be solved by graphical or by simplex method.
Correct Answer	False
Your Answer	False

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative maximin

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

Multiple Choice Single Answer

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Correct Answer	Certain number of tasks are required to be attached to equal number of facilities
Your Answer	Certain number of tasks are required to be assigned to one facility

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Mean arrival rate

Select The Blank

Question	Identify decision variables is _____ step of Graphical Method.
Correct Answer	First
Your Answer	First

True/False

Question	If a Linear Programming problem has no solution that satisfies all constraints, it is said to be feasible.
Correct Answer	True
Your Answer	False

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Saddle point occurs when :-
Correct Answer	Maximin = Minimax
Your Answer	Maximin > Minimax

Multiple Choice Single Answer

Question	Decision Variables are :-
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Your Answer	The unknowns to be determined from the solution to the model

Multiple Choice Single Answer

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Correct Answer	Any number of constraints
Your Answer	Two constraints

Multiple Choice Multiple Answer

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Your Answer	S , P , W

Multiple Choice Multiple Answer

Question	In solution of an assignment problem a row with zero costs is added and all the elements are multiplied by - 1, then the problem is of nature :-
Correct Answer	Unbalance assignment. , Maximization.
Your Answer	Prohibited assignments , Unbalance assignment. , Maximization.

Select The Blank

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Your Answer	Decision tree

Select The Blank

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Correct Answer	FCFS or LCFS
Your Answer	FIFO or LIFO

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Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Single Answer

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Correct Answer	Minimum Cost
Your Answer	Minimum Cost

True/False

Question	Compute row & column values for stone squares is step for MODI method.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
----------	--

Correct Answer	Algorithm , Iteration , Slack variable
Your Answer	Algorithm , Minimax , Iteration

Select The Blank

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Correct Answer	Problem Formulation
Your Answer	Problem Formulation

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
Correct Answer	Linear programming , Sequencing model , Breakeven analysis
Your Answer	Linear programming , Sequencing model , Breakeven analysis

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the top management as a policy?
Correct Answer	Policy decisions
Your Answer	Policy decisions

Select The Blank

Question	The _____ represents consequences of the interactions of the decision alternatives and the chance events.
Correct Answer	Outcomes
Your Answer	Outcomes

####

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Select The Blank

Question	Decision Making under Conflict is termed as _____
Correct Answer	Competitive Strategies
Your Answer	Competitive Strategies

Select The Blank

Question	When both the players play their optimal strategies the resulting payoff is called _____ of game.
Correct Answer	Value
Your Answer	Maximin

Multiple Choice Multiple Answer

Question	Nomenclatures not related to Transportation Problem are :-
Correct Answer	S, P, L, D , S, P, W, M , T, P, W, D
Your Answer	S, P, L, D , S, P, W, M , T, P, W, D

True/False

Question	Analytical decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	True

True/False

Question	Service time can be either fixed & balanced layouts or it can be variable.
Correct Answer	True
Your Answer	True

Select The Blank

Question	LP decide on product quantities to maximize profit is _____.
Correct Answer	Product Mix Problems
Your Answer	Transportation Problems

True/False

Question	The graphical method is simple to understand & easy to use
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Point of intersection of pure strategies is called :-
Correct Answer	Value , Saddle point
Your Answer	Payoff , Value , Optimal strategy

True/False

Question	Sensitivity analysis can be illustrated easily by drawing the graph of the changes
Correct Answer	True
Your Answer	True

Match The Following

Question	Correct Answer	Your Answer
Political Risks	People Resistance	Institution
Financial Risks	ROI	CAD / CAM
Technical Risks	CAD / CAM	People Resistance
Functional Risks	HRD	ROI

Select The Blank

Question	In North West Corner Method, the _____ is handled
Correct Answer	Procedure of allocating units to cells
Your Answer	Satisfies supply & demand conditions

Multiple Choice Single Answer

Question	Linear Programming deciding on product quantities to maximize profit is called :-
Correct Answer	Product Mix Problems
Your Answer	Product Mix Problems

Select The Blank

Question	A row with higher elements is called _____ row.
Correct Answer	Dominating
Your Answer	Major

Select The Blank

Question	Number of customers in the queue plus those being serviced is _____.
Correct Answer	System Length
Your Answer	Queue length

Multiple Choice Multiple Answer

Question	In an assignment problem a machine is not capable of performing a job & number machines are one less than number of jobs, then the problem is :-
Correct Answer	Unbalanced assignment problem. , Prohibited assignment problem. , Minimization problem.
Your Answer	Maximization problems. , Unbalanced assignment problem. , Prohibited assignment problem.

True/False

Question	A game in which algebraic sum of gains of both the players after the play is not zero is called two person non zero sum
----------	---

game.
Correct Answer True
Your Answer True

Multiple Choice Single Answer

Question	Graphical method of Linear Programming is useful when a Linear Programming problem involves :-
Correct Answer	Two Variables
Your Answer	Two Variables

True/False

Question	Surplus variable is a variable used to convert a Less than or equal to constraint into equality by subtracting it from left hand side of the constraint.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Terms related to NWCM are :-
Correct Answer	Initial feasible solution , Allocation of units , Upper left hand corner
Your Answer	Initial feasible solution , Allocation of units , Upper left hand corner , Materials Distribution

True/False

Question	When number of minimum lines drawn covering all zero elements are less than number of columns/rows, more than one optimal solution exist.
Correct Answer	False
Your Answer	True

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x 2

Multiple Choice Multiple Answer

Question	Information to study an input process is :-
Correct Answer	Arrival distribution , Inter-arrival distribution , Mean arrival rate
Your Answer	Arrival distribution , Finance , Inter-arrival distribution

Multiple Choice Multiple Answer

Question	Which of the following can be considered as a general rules for data collection in the decision making process?
Correct Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded
Your Answer	The information should be subjected to checks and cross checks , Only organised and related facts should be collected , The information must be collected from the most reliable source

Select The Blank

Question	The _____ is concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement of action.
Correct Answer	Games theory
Your Answer	Games theory

Multiple Choice Multiple Answer

Question	Combination of strategies of players determines :-
Correct Answer	Outcomes , Payoff
Your Answer	Outcomes , Minimax , Saddle point

True/False

Question	Decision alternatives must not be mutually exclusive.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Value of a game having saddle point equals :-
Correct Answer	Saddle point
Your Answer	Saddle point

Multiple Choice Multiple Answer

Question	Pure strategies are also called :-
Correct Answer	Minimax pure strategy , Maximin pure strategy , Optimal strategies
Your Answer	Minimax pure strategy , Maximin pure strategy , Mixed strategy

Match The Following

Question	Correct Answer	Your Answer
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Sem-4 (Operations) -- Quantitative Techniques

Transportation Tableau	Data on shipping costs	Data on shipping costs
Transportation Problem	Transportation of goods or services	Supply points equals total demand
Balanced Transportation Problem	Supply points equals total demand	Mechanism of Operation
Un-balanced Transportation Problem	Supply points does not equal demand	Transportation of goods or services

Multiple Choice Multiple Answer

Question	Special cases on simplex method are :-
Correct Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution
Your Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution

Multiple Choice Single Answer

Question	Linear Programming develop a work schedule to meet staff needs at all hours with minimum number of employees is called as :-
Correct Answer	Staffing Problems
Your Answer	Staffing Problems

True/False

Question	A 2x2 mixed strategy game is solved by 1 mere programming.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Various Quantitative Techniques are :-
Correct Answer	Linear Programming , Replacement Theory , Queuing Theory
Your Answer	Linear Programming , Replacement Theory , Queuing Theory

True/False

Question	Static decisions are essentially not a one time decisions.
Correct Answer	False
Your Answer	True

Select The Blank

Question	_____ is called Stepping Stone Method.
Correct Answer	Unoccupied cells to achieve solution

Your Answer	Avoidance of high penalty & high-cost
-------------	---------------------------------------

Select The Blank

Question	Decision Making under Un-certainty is called as _____.
----------	--

Correct Answer	Uncertain Situations
----------------	----------------------

Your Answer	Stochastic Model
-------------	------------------

Multiple Choice Single Answer

Question	Which of the decision theory model indicates the situations where consequences of each act of decision maker are influenced by acts of opponent?
----------	--

Correct Answer	Competitive strategies
----------------	------------------------

Your Answer	Deterministic models
-------------	----------------------

Multiple Choice Single Answer

Question	Time spent by Service Facility to render the service to a Customer is :-
----------	--

Correct Answer	Service time
----------------	--------------

Your Answer	Service time
-------------	--------------

Multiple Choice Single Answer

Question	In pure strategy game, strategies of players are represented by row and maximin is 4. There value and game is :-
----------	--

Correct Answer	4
----------------	---

Your Answer	-4
-------------	----

Multiple Choice Multiple Answer

Question	Words related to NWCM are :-
----------	------------------------------

Correct Answer	North , Corner , West
----------------	-----------------------

Your Answer	North , Corner , West , Mechanism
-------------	-----------------------------------

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
----------	---

Correct Answer	Iteration
----------------	-----------

Your Answer	Iteration
-------------	-----------

Multiple Choice Single Answer

Question	In a pure strategy game, probability of selection of his optimal strategy by a player is :-
----------	---

Correct Answer	1
----------------	---

Your Answer	Zero
-------------	------

Multiple Choice Single Answer

Question	Linear Programming is one of the most popular techniques of :-
Correct Answer	Operation Research
Your Answer	Operation Research

Multiple Choice Multiple Answer

Question	Terms relating to LP are :-
Correct Answer	Constraints , Objective Function , Non-Negativity Condition
Your Answer	Constraints , Objective Function , Non-Negativity Condition

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the lower levels of management as an outcome of policy decision?
Correct Answer	Operating decision
Your Answer	Personal decision

Multiple Choice Single Answer

Question	Study of Comparable Past Events & Forecasting Future Events is :-
Correct Answer	Probability Theory
Your Answer	Probability Theory

Select The Blank

Question	A game in which there are two competing parties is called _____ game.
Correct Answer	2 person
Your Answer	2 x 3

####

Match The Following

Question	Correct Answer	Your Answer
Least Cost Method	Procedure of allocating units to cost	Satisfies supply & demand conditions
Dummy source or Destination	Extra row or column in a tableau	Extra row or column in a tableau
An Initial Feasible Solution	Satisfies supply & demand conditions	Mechanism of Operation
North West Corner Method	Procedure of allocating units to cells	Procedure of allocating units to cost

Select The Blank

Question	Brown's algorithm is used to solve _____ 2 persons zero game sum.
Correct Answer	m x n
Your Answer	m x n

Match The Following

Question	Correct Answer	Your Answer
MODI Method	Water cells to achieve solution	Water cells to achieve solution
Vogel's Approximation Method (VAM)	Avoidance of high penalty & high-cost	Avoidance of high penalty & high-cost
Degeneracy	Occupied cells are less than (m+n-1)	Occupied cells are less than (m+n-1)
Stepping Stone Method	Unoccupied cells to achieve solution	Unoccupied cells to achieve solution

True/False

Question	Smallest element in each row is subtracted from each element in the column.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Terminologies of Graphical Method are :-
Correct Answer	Constraints , Graph of linear equality/inequality , Half Space
Your Answer	Constraints , Graph of linear equality/inequality , Half Space , Payoff

Multiple Choice Single Answer

Question	Feasible Region is :-
Correct Answer	Region defined by the Constraints & non-negative restrictions
Your Answer	Region defined by the Constraints & non-negative restrictions

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

True/False

Question	Allocations are independent when it is not possible to alter any individual allocations.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Participants of the game are :-
Correct Answer	Players , Decision maker
Your Answer	Players , Decision maker , Payoffs , Elements

True/False

Question	A game in which algebraic sum of gains of both the players after the play is not zero is called two person non zero sum game.
Correct Answer	True
Your Answer	True

Select The Blank

Question	A mixed strategy 2 x 2 game is solved by _____method.
Correct Answer	Algebraic
Your Answer	Linear programming

True/False

Question	Infeasibility is the condition in which the Linear Programming problem permits no feasible combination of the decision variables.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Every combination of strategies of players determines an outcomes called :-
Correct Answer	Pay off
Your Answer	Pay off

True/False

Question	Value of game to player II is negative of minimax value.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	In a standard minimization problem, objective is to :-
----------	--

Correct Answer Minimize total time. , Minimize total cost.

Your Answer Minimize total time. , Minimize total cost. , Find alternative optimal solution. , Allocate each task to each facility.

Multiple Choice Multiple Answer

Question Objects too can form queues as :-

Correct Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground

Your Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground , Finance

Select The Blank

Question The _____ is a method for deciding how to meet some desired objective which may be profit maximisation or cost minimization, subject to constraints on the amounts of commodities required or resources available.

Correct Answer Linear programming

Your Answer Linear programming

Multiple Choice Multiple Answer

Question Feasible solution formula contains :-

Correct Answer $m, n, 1, m, n, 3, n, 1, x$

Your Answer $m, n, 1, m, n, 3, n, 1, x, m, 1, p$

Select The Blank

Question Team approach needs for optimal solution of _____ Decisions.

Correct Answer Adaptive

Your Answer Adaptive

Multiple Choice Single Answer

Question Transportation Tableau is :-

Correct Answer Tabular arrangement of data on demand, capacity & per unit shipping costs bet. supply point to destination

Your Answer Tabular arrangement of data on demand, capacity & per unit shipping costs bet. supply point to destination

Multiple Choice Multiple Answer

Question Which of the following elements are used to construct the pay off matrix?

Correct Answer Pay off , strategies , Probabilities

Your Answer Pay off , strategies , Decision tree , Probabilities

Multiple Choice Multiple Answer

Question	Resource Management involves
Correct Answer	Man , Machines , Materials
Your Answer	Man , Machines , Materials , Work Orders

Multiple Choice Single Answer

Question	Last Step of Graphical Method of LP is :-
Correct Answer	Calculate the total profit / loss
Your Answer	Calculate the total profit / loss

True/False

Question	Effective improvement over the initial feasible solution is included in MODI.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x 2

True/False

Question	Surplus variable is a variable used to convert a Less than or equal to constraint into equality by subtracting it from left hand side of the constraint.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Extra row or column in tableau, with zero cost in each of its cells, used to balance an unbalanced problem is :-
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Multiple Answer

Question	Games theory can solve :-
Correct Answer	Two person's game , Two persons zero sum game , Two persons 3 x 3 game
Your Answer	Two person's game , N Person's game , Two persons zero sum game , Two persons 3 x 3 game

True/False

Question	Resulting payoff of optional strategies is called outcome.
Correct Answer	False
Your Answer	True

Select The Blank

Question	A row with higher elements is called _____ row.
Correct Answer	Dominating
Your Answer	Major

Select The Blank

Question	Constraint not affecting the feasible solution is _____.
Correct Answer	Redundant Constraint
Your Answer	Redundant Constraint

True/False

Question	Value of the subgame related to highest point in the feasible region is solution for $2 \times n$ game.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Special cases on simplex method are :-
Correct Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution
Your Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution , Payoffs

Select The Blank

Question	The _____ represents consequences of the interactions of the decision alternatives and the chance events.
Correct Answer	Outcomes
Your Answer	Outcomes

Select The Blank

Question	Number of customers in the queue plus those being serviced is _____.
Correct Answer	System Length
Your Answer	System Length

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
Correct Answer	Iteration
Your Answer	Iteration

Multiple Choice Multiple Answer

Question	Terms related to LCM are :-
Correct Answer	Initial feasible solution , Lowest Cost Cells , Next Lowest & so on
Your Answer	Initial feasible solution , Lowest Cost Cells , Next Lowest & so on , Finance Distribution

Multiple Choice Multiple Answer

Question	Value of game equals :-
Correct Answer	Saddle points , Weighted average of possible outcomes
Your Answer	Saddle points , Weighted average of possible outcomes , Zero , Value of any sum game

Multiple Choice Single Answer

Question	Expected gain to a player if he and his opponent use their best strategies is known as :-
Correct Answer	Value of game
Your Answer	Optimal strategy

Multiple Choice Multiple Answer

Question	Procedural steps in LCM are :-
Correct Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column
Your Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column , Prepare a Methodological report

Multiple Choice Single Answer

Question	A mixed strategy is decision of player to select :-
Correct Answer	Different strategies
Your Answer	Different strategies

Select The Blank

Question	Comparable Past Event & Forecasting Future Events Study is called _____
Correct Answer	Probability Theory
Your Answer	Probability Theory

Multiple Choice Single Answer

Question	Vogel's Approximation Method (VAM) is :-
Correct Answer	A systematic procedure to obtain an initial feasible solution based on avoidance of high penalty & cost cell
Your Answer	A systematic procedure to obtain an initial feasible solution based on avoidance of high penalty & cost cell

Multiple Choice Single Answer

Question	There are more than one optimal solutions to an assignment problem when :-
Correct Answer	Number of independent zeros are more than required ones.
Your Answer	Number of minimum lines covering all zeros are more than number of rows/columns

Multiple Choice Single Answer

Question	In an unbalanced assignment problem :-
Correct Answer	One or more facilities remain idle.
Your Answer	One or more facilities remain idle.

Multiple Choice Single Answer

Question	The column with the largest negative index number is :-
Correct Answer	Key Column
Your Answer	Key Column

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Match The Following

Question	Correct Answer	Your Answer
Political Risks	People Resistance	People Resistance
Financial Risks	ROI	Institution
Technical Risks	CAD / CAM	CAD / CAM
Functional Risks	HRD	HRD

Select The Blank

Question	Set of basic variables which are not restricted to equal '0' in current basic solution & listed in solution column is termed as _____.
Correct Answer	Basis
Your Answer	Simplex Method

Multiple Choice Single Answer

Question	In VAM, A stands for :-
Correct Answer	Approximation
Your Answer	Appropriate

Multiple Choice Single Answer

Question	Time spent by Service Facility to render the service to a Customer is :-
Correct Answer	Service time
Your Answer	Service time

True/False

Question	A game without a saddle point is called mixed strategy game.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	When an optimal solution is reached next step is to :-
----------	--

Correct Answer Mark a zero in a row with exclusive zero.

Your Answer Mark a zero in a row with exclusive zero.

Multiple Choice Multiple Answer

Question Terms relating to LP are :-

Correct Answer Constraints , Objective Function , Non-Negativity Condition

Your Answer Constraints , Objective Function , Non-Negativity Condition

Multiple Choice Single Answer

Question When process capability of a machine does not allow allocation of a particular job on the machine, the problem can be solved by :-

Correct Answer Prohibited assignment method

Your Answer Prohibited assignment method

True/False

Question Value of game to player II is negative of minimax value.

Correct Answer False

Your Answer False

Select The Blank

Question A Graph can be defined as _____.

Correct Answer Two-variable-linear-equation which is always a Straight Line

Your Answer Two-variable-linear-equation which is always a Straight Line

Multiple Choice Single Answer

Question Which of the following technique provides aid to sales staff while finalising a judgment forecast?

Correct Answer Forecasting

Your Answer Linear programming

True/False

Question Events must be mutually exclusive.

Correct Answer True

Your Answer True

Select The Blank

Question _____ is called Stepping Stone Method.

Correct Answer Unoccupied cells to achieve solution

Your Answer Unoccupied cells to achieve solution

Select The Blank

Question An assignment problem with machine capability constraint is an example of _____ assignment problem.

Correct Answer Prohibited

Your Answer Unbalanced

Multiple Choice Multiple Answer

Question Queues are formed at :-

Correct Answer Bus stand , Traffic lights , Telephone booths

Your Answer Bus stand , Traffic lights , Telephone booths

Select The Blank

Question To assign a task, a zero in a row/column with _____ zero is marked with square.

Correct Answer Exactly one

Your Answer Exactly one

True/False

Question The graphical method is simple to understand & easy to use

Correct Answer True

Your Answer True

Multiple Choice Single Answer

Question Unbounded Solution is :-

Correct Answer Permitted to be infinitely large

Your Answer Which does not define the boundaries of the feasible solution

Multiple Choice Multiple Answer

Question Procedural steps in VAM are :-

Correct Answer Selection of row or column , Allocation of number of units , Calculation of difference bet 2 element

Your Answer	Cash Flow & Fund flow statements , Selection of row or column
-------------	---

Multiple Choice Multiple Answer

Question	Which are applications of quantitative techniques in financial management?
Correct Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans
Your Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans

Match The Following

Question	Correct Answer	Your Answer
Graphical Method Step 4	LPP Formulation	LPP Formulation
Graphical Method Step 1	Identify Decision Variables	Identify Decision Variables
Graphical Method Step 2	Equation of Objective Function	Graph Objective Function
Graphical Method Step 3	Equation of Constraints	Equation of Constraints

Multiple Choice Single Answer

Question	Extra row or column in tableau, with zero cost in each of its cells, used to balance an unbalanced problem is :-
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Select The Blank

Question	SOPs provide necessary base to select optimal solution is known as _____.
Correct Answer	Mechanistic Decisions
Your Answer	Mechanistic Decisions

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

Select The Blank

Question	The _____ is a method for deciding how to meet some desired objective which may be profit maximisation or cost minimization, subject to constraints on the amounts of commodities required or resources available.
Correct Answer	Linear programming
Your Answer	Linear programming

Select The Blank

Question	The _____ is concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement of action.
Correct Answer	Games theory
Your Answer	Games theory

True/False

Question	Smallest element in each row is subtracted from each element in the column.
Correct Answer	False
Your Answer	False

Multiple Choice Multiple Answer

Question	Which are the typical areas of application of probability theory?
Correct Answer	Market research , Inventory control , Price movements
Your Answer	Market research , Budgeting

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False
Your Answer	False

Multiple Choice Single Answer

Question	Determination of Least Cost Route of Transportation of Goods from one plant to different warehouses is called :-
----------	--

Correct Answer	Transportation Model
----------------	----------------------

Your Answer	Transportation Model
-------------	----------------------

Multiple Choice Multiple Answer

Question	Games theory can solve :-
----------	---------------------------

Correct Answer	Two person's game , Two persons zero sum game , Two persons 3 x 3 game
----------------	--

Your Answer	Two person's game , Two persons zero sum game , Two persons 3 x 3 game
-------------	--

Multiple Choice Single Answer

Question	Which technique replaces the age old intuitive and subjective approach of decision making by an analytical and an objective approach?
----------	---

Correct Answer	Quantitative technique
----------------	------------------------

Your Answer	Quantitative technique
-------------	------------------------

True/False

Question	MODI Method is to evaluate water cells to achieve an optimal solution.
----------	--

Correct Answer	True
----------------	------

Your Answer	True
-------------	------

Multiple Choice Multiple Answer

Question	Terminology NOT related with Linear Programming are :-
----------	--

Correct Answer	Players , Payoff , Payoff Matrics
----------------	-----------------------------------

Your Answer	Players , Payoff , Payoff Matrics
-------------	-----------------------------------

Multiple Choice Multiple Answer

Question	Study of Process Capability is not related to :-
----------	--

Correct Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis
----------------	---

Your Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis
-------------	---

True/False

Question	Under Single Queue, Multiple Servers (Series), there is one queue but several servers in the service facility.
----------	--

Correct Answer	True
----------------	------

Your Answer	True
-------------	------

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Queue length

True/False

Question	Quantitative techniques consider tangible as well as intangible factors.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Which of the following is not a statistical technique?
Correct Answer	Critical path analysis
Your Answer	Acceptance sampling

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x n

Multiple Choice Multiple Answer

Question	Game can have :-
Correct Answer	Mixed strategies , Pure strategies
Your Answer	Mixed strategies , Pure strategies

Select The Blank

Question	Graphical method is used to solve problems involving _____ unknowns.
Correct Answer	Two
Your Answer	Two

Multiple Choice Multiple Answer

Question	Various Quantitative Techniques are :-
----------	--

Correct Answer Linear Programming , Replacement Theory , Queuing Theory

Your Answer Linear Programming , Replacement Theory , Queuing Theory

True/False

Question Representation of customer behavior is reactions of the typical customers when confronted with a queue before the service facility.

Correct Answer True

Your Answer False

Select The Blank

Question Expected gain to a player, if he and his opponent use their best strategy is called _____ of game.

Correct Answer Value

Your Answer Value

Multiple Choice Multiple Answer

Question Following concepts are not considered in Linear Programming :-

Correct Answer Maximum , Minimax , Saddle Point

Your Answer Saddle Point , Non-negativity Restrictions

concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Select The Blank

Question	To assign a task, a zero in a row/column with _____ zero is marked with square.
Correct Answer	Exactly one
Your Answer	Exactly one

Select The Blank

Question	Transportation Tableau gives _____.
Correct Answer	Data on shipping costs
Your Answer	Data on shipping costs

True/False

Question	In a traveling salesman problem, salesman can visit same city twice before all the cities are covered.
Correct Answer	False
Your Answer	False

Select The Blank

Question	The _____ are the points from which decision alternatives emerges branches of the tree.
Correct Answer	Decision modes
Your Answer	Decision modes

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
Correct Answer	Problem Formulation
Your Answer	Problem Formulation

Multiple Choice Single Answer

Question	Which technique replaces the age old intuitive and subjective approach of decision making by an analytical and an objective approach?
Correct Answer	Quantitative technique
Your Answer	Quantitative technique

Multiple Choice Multiple Answer

Question	Which are applications of quantitative techniques in financial management?
Correct Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans
Your Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans

Select The Blank

Question	Value of pure strategy game, to player I is
Correct Answer	Maximin
Your Answer	Maximin

Multiple Choice Multiple Answer

Question	Combination of strategies of players determines :-
Correct Answer	Outcomes , Payoff
Your Answer	Outcomes , Payoff

Multiple Choice Multiple Answer

Question	Types of variables in Simplex Method are :-
Correct Answer	Slack Variable , Surplus Variable , Artificial Variable
Your Answer	Slack Variable , Surplus Variable , Artificial Variable

Multiple Choice Multiple Answer

Question	Elements of Transportation Model are :-
Correct Answer	Plants , Warehouses , Supply & Demand
Your Answer	Plants , Warehouses

True/False

Question	In pure strategies game, maximin / minimax strategies are called optional strategies.
Correct Answer	True
Your Answer	False

True/False

Question	Feasible solution must have $(m+n-1)$ allocations.
----------	--

Correct Answer True

Your Answer False

Multiple Choice Multiple Answer

Question Transportation Tableau is a Data on :-

Correct Answer Demand , Capacity , Unit Shipping Cost

Your Answer Demand , Capacity , Unit Shipping Cost

Multiple Choice Single Answer

Question Disadvantage of Graphical Method is :-

Correct Answer Restricted to two variables

Your Answer Restricted to two variables

Multiple Choice Multiple Answer

Question What is expected to be established when facts are analysed after collection of data in the decision making process?

Correct Answer Qualitative considerations to take overall view of business , The length of time to which the decision should apply , Effect of decision on other functional areas

Your Answer Qualitative considerations to take overall view of business , The length of time to which the decision should apply , To check the authenticity of facts

Multiple Choice Multiple Answer

Question Study of Comparable past events & forecasting future events is related to

Correct Answer Probability Theory , Correlation & Regression Analysis , Statistical Process Control

Your Answer Probability Theory

Multiple Choice Single Answer

Question When there are restrictions to assignment of a task to particular facility :-

Correct Answer Very high costs are assigned to prohibited combinations

Your Answer A dummy row/column with zero costs is added

True/False

Question The decision nodes are depicted by circles.

Correct Answer False

Your Answer False

Select The Blank

Question Expected gain to a player, if he and & his opponent use their best strategy is called _____ of game.

Correct Answer Value

Your Answer Value

Match The Following

Question	Correct Answer	Your Answer
Queuing theory	Waiting lines formed in offices and factories	Waiting lines formed in offices and factories
Line of balance	WIP inventory control	WIP inventory control
Critical path analysis	Project scheduling	Project scheduling
Decision theory	Site selection	Site selection

Select The Blank

Question The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____

Correct Answer Collusion

Your Answer Collusion

Multiple Choice Single Answer

Question Which of the following is example of personal decision?

Correct Answer Works manager's decision to quit his post

Your Answer Works manager's decision to quit his post

True/False

Question Though graphical method can deal with any number of a constraints but since each constraint is shown as a line on a graph, a large number of lines make the graph difficult to read.

Correct Answer True

Your Answer True

Multiple Choice Single Answer

Question Decision of a player to play row corresponding to maximin value is called :-

Correct Answer Maximin Pure strategy

Your Answer Maximin Pure strategy

Multiple Choice Single Answer

Question Optimal Solution is :-

Correct Answer That point or points in the feasible region that gives the optimal values of the objective function

Your Answer That point or points in the feasible region that gives the optimal values of the objective function

Multiple Choice Multiple Answer

Question Today's Business has constraints like :-

Correct Answer Raw Material , Shortage of Production , Limitations of Warehouses

Your Answer Raw Material , Shortage of Production , Limitations of Warehouses

True/False

Question Transportation tableau construction is to present the information in the form of transportation tableau.

Correct Answer True

Your Answer True

Select The Blank

Question Transportation problem in which total capacity at supply points equals total demand at the destinations is _____

Correct Answer Un-balanced Transportation Problem

Your Answer Balanced Transportation Problem

Multiple Choice Single Answer

Question Solution satisfying supply & demand conditions & yet may not be optimal is :-

Correct Answer An Initial Feasible Solution

Your Answer An Initial Feasible Solution

Multiple Choice Single Answer

Question If P_{ij} represent element in each column, than minimax value of game is :-

Correct Answer $\min (\max p_{ij})$

Your Answer $\min P_{ij}$

Multiple Choice Multiple Answer

Question	Resource Management involves :-
Correct Answer	Man , Machines , Materials
Your Answer	Man , Machines , Materials

Select The Blank

Question	The _____ are those in which the outcome of the first decision affects the desirability of the choices at the next decision.
Correct Answer	Multi stage decisions
Your Answer	Analytical decisions

True/False

Question	If a mixed strategy game is bigger than 2x2 size, dominance rule is used to reduce the game.
Correct Answer	True
Your Answer	True

Select The Blank

Question	LP decide on product quantities to maximize profit is _____.
Correct Answer	Product Mix Problems
Your Answer	Product Mix Problems

Match The Following

Question	Correct Answer	Your Answer
Shortest Route for Salesman	Traveling Problem	Traveling Problem
Order Quantity Allocation	Production Problem	Production Problem
Number of Employees	Staffing Problem	Staffing Problem
Aircraft & Crews	Routing Problem	Routing Problem

Multiple Choice Single Answer

Question	When an optimal solution is reached next step is to :-
Correct Answer	Mark a zero in a row with exclusive zero.
Your Answer	Mark a zero in a row with exclusive zero.

Multiple Choice Multiple Answer

Question	Procedural steps in LCM are :-
Correct Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column
Your Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column

True/False

Question	System output refers to the rate at which customers are rendered service.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative minimax

Multiple Choice Multiple Answer

Question	Words related to VAM are :-
Correct Answer	Vogel's , Method , Approximation
Your Answer	Vogel's , Method , Approximation

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Multiple Answer

Question	Various Types of Problems related to Linear Programming are
Correct Answer	Routing Problems , Transportation Problems , Product Mix Problems
Your Answer	Routing Problems , Transportation Problems , Product Mix Problems

True/False

Question	Mechanistic decisions involve problems with limited number of decision variables.
----------	---

Correct Answer True

Your Answer True

True/False

Question Minimax value of the game sets upper limit to the value of the game.

Correct Answer True

Your Answer True

Multiple Choice Single Answer

Question Which of the decision theory model indicates the situations where consequences of each act of decision maker are influenced by acts of opponent?

Correct Answer Competitive strategies

Your Answer Competitive strategies

Select The Blank

Question Pair of values (x,y) of decision variables that satisfy constraints is _____

Correct Answer Feasible Solution

Your Answer Feasible Solution

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Match The Following

Question	Correct Answer	Your Answer
Least Cost Method	Procedure of allocating units to cost	Procedure of allocating units to cost
Dummy source or Destination	Extra row or column in a tableau	Extra row or column in a tableau
An Initial Feasible Solution	Satisfies supply & demand conditions	Satisfies supply & demand conditions
North West Corner Method	Procedure of allocating units to cells	Procedure of allocating units to cells

Multiple Choice Multiple Answer

Question	Value of the pure strategy game is :-
Correct Answer	Maximin for player I , Negative minimax for player II
Your Answer	Maximin for player I , Minimax for player I , Minimax for player II

True/False

Question	Constraint that does not affect the feasible solution is Redundant.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Materials Management involves :-
Correct Answer	Stores , Warehouses , Transportation
Your Answer	Stores , Warehouses , Transportation

True/False

Question	Graphical method is restricted to two variables.
Correct Answer	True
Your Answer	False

Multiple Choice Single Answer

Question	Study of Comparable Past Events & Forecasting Future Events is :-
----------	---

Correct Answer Probability Theory

Your Answer Probability Theory

Select The Blank

Question To assign a task, a zero in a row/column with _____ zero is marked with square.

Correct Answer Exactly one

Your Answer Exactly one

Multiple Choice Single Answer

Question The column with the largest negative index number is :-

Correct Answer Key Column

Your Answer Key Column

Multiple Choice Single Answer

Question Decision of a player to play row corresponding to maximin value is called :-

Correct Answer Maximin Pure strategy

Your Answer Pure strategy

Multiple Choice Single Answer

Question In NWCM, N stands for :-

Correct Answer North

Your Answer North

Multiple Choice Multiple Answer

Question Terms relating to LP are :-

Correct Answer Constraints , Objective Function , Non-Negativity Condition

Your Answer Constraints , Objective Function , Non-Negativity Condition

True/False

Question Decision alternatives must not be mutually exclusive.

Correct Answer False

Your Answer False

Multiple Choice Multiple Answer

Question	Various Terms involved in Simplex Method are :-
Correct Answer	Key Element , Key Row , Key Column
Your Answer	Key Element , Key Row , Key Column

True/False

Question	When number of minimum lines drawn covering all zero elements are less than number of columns/rows, more than one optimal solution exist.
Correct Answer	False
Your Answer	False

True/False

Question	Resulting payoff of optional strategies is called outcome.
Correct Answer	False
Your Answer	False

Select The Blank

Question	Cash flows & determining Optimal investment proposal is _____
Correct Answer	Investment Theory
Your Answer	Allocation Model

Select The Blank

Question	LP is most popular techniques of _____.
Correct Answer	Operation Research
Your Answer	Operation Research

True/False

Question	Though graphical method can deal with any number of a constraints but since each constraint is shown as a line on a graph, a large number of lines make the graph difficult to read.
Correct Answer	True
Your Answer	False

Match The Following

Question	Correct Answer	Your Answer
----------	----------------	-------------

Graphical Method Step 4	LPP Formulation	Calculate Profit/Cost
Graphical Method Step 1	Identify Decision Variables	Equation of Objective Function
Graphical Method Step 2	Equation of Objective Function	LPP Formulation
Graphical Method Step 3	Equation of Constraints	Graph Objective Function

Multiple Choice Single Answer

Question	If a mixed strategy game is and $2 \times n$ size then the first step to solve the game is to:-
Correct Answer	Reduce game by dominance rule
Your Answer	Look for saddle point

Multiple Choice Multiple Answer

Question	Saddle points equals to :-
Correct Answer	Assigning task to facility , Maximin
Your Answer	Assigning task to facility , Zero , Maximin

Select The Blank

Question	Comparable Past Event & Forecasting Future Events Study is called _____
Correct Answer	Probability Theory
Your Answer	Probability Theory

Select The Blank

Question	Initial Feasible solution must have _____ allocations.
Correct Answer	$(m+n-1)$
Your Answer	$(n-m-1)$

Multiple Choice Multiple Answer

Question	Nomenclatures not related to Transportation Problem are :-
Correct Answer	T, P, W, D , S, P, L, D , S, P, W, M
Your Answer	S, P, L, D , S, P, W, M , T, P, W, D

True/False

Question	Traffic intensity is product of average arrival rate & average service rate.
----------	--

Correct Answer False

Your Answer False

Select The Blank

Question Dummy source has _____ cost.

Correct Answer Zero

Your Answer Zero

Multiple Choice Single Answer

Question Infeasible Solution :-

Correct Answer No solution satisfies all constraints

Your Answer No solution satisfies all constraints

Multiple Choice Multiple Answer

Question LP can be used to solve the problems of :-

Correct Answer Production , Materials , Marketing

Your Answer Production , Materials , Marketing

Multiple Choice Single Answer

Question What is MODI Method?

Correct Answer A systematic procedure for evaluating unoccupied (water) cells to achieve an optimal solution

Your Answer A systematic procedure for evaluating unoccupied (water) cells to achieve an optimal solution

Select The Blank

Question Minimax value sets _____ limit on game.

Correct Answer Upper

Your Answer Optimal

True/False

Question Analytical decisions involve problems with limited number of decision variables.

Correct Answer False

Your Answer False

Select The Blank

Question Positive non-zero values variables are called _____.

Correct Answer Basic Variables

Your Answer Basic Variables

True/False

Question Extra variable added to obtain an initial feasible solution to a LP problem is Artificial Variable.

Correct Answer True

Your Answer True

True/False

Question Adaptive decisions involve problems with limited number of decision variables.

Correct Answer False

Your Answer False

Select The Blank

Question Team approach needs for optimal solution of _____ Decisions.

Correct Answer Adaptive

Your Answer Adaptive

Select The Blank

Question ISO-9001 QMS is for _____.

Correct Answer Quality System

Your Answer Quality System

Multiple Choice Multiple Answer

Question In pure strategy game value is equal to :-

Correct Answer Saddle point , Maximin , Minimax

Your Answer Weighted average of possible outcome , Saddle point , Maximin

Multiple Choice Multiple Answer

Question Game can have :-

Correct Answer Mixed strategies , Pure strategies

Your Answer Mixed strategies , Pure strategies , Single strategy

Multiple Choice Single Answer

Question Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-

Correct Answer Iteration

Your Answer Iteration

Multiple Choice Single Answer

Question Graphical method can deal with how many constraints?

Correct Answer Any number

Your Answer Any number

Multiple Choice Multiple Answer

Question Terms related to NWCM are :-

Correct Answer Initial feasible solution , Allocation of units , Upper left hand corner

Your Answer Initial feasible solution , Allocation of units , Upper left hand corner

Multiple Choice Multiple Answer

Question Objects too can form queues as :-

Correct Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground

Your Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground

Multiple Choice Single Answer

Question A systematic procedure for evaluating unoccupied cells for optimal solution is :-

Correct Answer Stepping Stone Method

Your Answer Stepping Stone Method

Multiple Choice Multiple Answer

Question Pure strategies are also called :-

Correct Answer Minimax pure strategy , Maximin pure strategy , Optimal strategies

Your Answer Minimax pure strategy , Maximin pure strategy , Optimal strategies

Select The Blank

Question	Unbounded Solution is one which is _____.
Correct Answer	Permitted to be infinitely large
Your Answer	Which does not define the boundaries of the feasible solution

Multiple Choice Single Answer

Question	Redundant Constraint is :-
Correct Answer	Which does not define the boundaries of the feasible solution
Your Answer	Point that gives same optimal value

Multiple Choice Single Answer

Question	A Graph is :-
Correct Answer	Two-variable-linear-equation is always a Straight Line
Your Answer	Two-variable-linear-equation is always a Straight Line

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LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Multiple Answer

Question	Queues are formed at :-
Correct Answer	Telephone booths , Bus stand , Traffic lights
Your Answer	Bus stand , Traffic lights , Telephone booths

Multiple Choice Multiple Answer

Question	Specification of the constraints are :-
Correct Answer	Vendors , Available Hours , Space
Your Answer	Vendors , Space , Materials

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative maximin

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

Multiple Choice Single Answer

Question	Assignment technique is useful in a situation where :-
Correct Answer	Certain number of tasks are required to be attached to equal number of facilities
Your Answer	Certain number of tasks are required to be assigned to one facility

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Mean arrival rate

Select The Blank

Question	Identify decision variables is _____ step of Graphical Method.
----------	--

Correct Answer	First
----------------	-------

Your Answer	First
-------------	-------

True/False

Question	If a Linear Programming problem has no solution that satisfies all constraints, it is said to be feasible.
----------	--

Correct Answer	True
----------------	------

Your Answer	False
-------------	-------

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
----------	---

Correct Answer	True
----------------	------

Your Answer	True
-------------	------

Multiple Choice Single Answer

Question	Saddle point occurs when :-
----------	-----------------------------

Correct Answer	Maximin = Minimax
----------------	-------------------

Your Answer	Maximin > Minimax
-------------	-------------------

Multiple Choice Single Answer

Question	Decision Variables are :-
----------	---------------------------

Correct Answer	The unknowns to be determined from the solution to the model
----------------	--

Your Answer	The unknowns to be determined from the solution to the model
-------------	--

Multiple Choice Single Answer

Question	Graphical method can deal with :-
----------	-----------------------------------

Correct Answer	Any number of constraints
----------------	---------------------------

Your Answer	Two constraints
-------------	-----------------

Multiple Choice Multiple Answer

Question	Nomenclatures related to Transportation Problem are :-
----------	--

Correct Answer	S , P , W
----------------	-----------

Your Answer	S , P , W
-------------	-----------

Multiple Choice Multiple Answer

Question	In solution of an assignment problem a row with zero costs is added and all the elements are multiplied by - 1, then the problem is of nature :-
----------	--

Correct Answer	Unbalance assignment. , Maximization.
Your Answer	Prohibited assignments , Unbalance assignment. , Maximization.

Select The Blank

Question	A_____ is a graphic device to depict the sequence of decision to be made and the possible events that may occur.
Correct Answer	Decision tree
Your Answer	Decision tree

Select The Blank

Question	Terminology for Service Distribution is _____
Correct Answer	FCFS or LCFS
Your Answer	FIFO or LIFO

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

True/False

Question	Compute row & column values for stone squares is step for MODI method.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False

Your Answer	True
-------------	------

Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
----------	--

Correct Answer	Algorithm , Iteration , Slack variable
----------------	--

Your Answer	Algorithm , Minimax , Iteration
-------------	---------------------------------

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
----------	--

Correct Answer	Problem Formulation
----------------	---------------------

Your Answer	Problem Formulation
-------------	---------------------

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
----------	---

Correct Answer	Linear programming , Sequencing model , Breakeven analysis
----------------	--

Your Answer	Linear programming , Sequencing model , Breakeven analysis
-------------	--

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the top management as a policy?
----------	--

Correct Answer	Policy decisions
----------------	------------------

Your Answer	Policy decisions
-------------	------------------

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Multiple Answer

Question	Queues are formed at :-
----------	-------------------------

Correct Answer	Telephone booths , Bus stand , Traffic lights
----------------	---

Your Answer	Telephone booths , Bus stand , Traffic lights
-------------	---

Multiple Choice Multiple Answer

Question	Specification of the constraints are :-
----------	---

Correct Answer	Vendors , Available Hours , Space
----------------	-----------------------------------

Your Answer	Vendors , Space , Materials
-------------	-----------------------------

Multiple Choice Single Answer

Question	Which of the following is an example of a policy decision?
Correct Answer	Increment and promotion policy
Your Answer	Increment and promotion policy

Multiple Choice Multiple Answer

Question	Basic assumption in a play are :-
Correct Answer	Choice of strategy by players is simultaneous , No player knows choice of his opponent
Your Answer	Strategies are always pure , Choice of strategy by players is simultaneous , Strategies are always mixed

True/False

Question	A 2x2 mixed strategy game is solved by algebraic method.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	When number of tasks and number of facilities are not equal :-
Correct Answer	Some tasks may remain unassigned. , Some facilities may remain idle.
Your Answer	Some tasks may remain unassigned. , Some facilities may remain idle.

Multiple Choice Single Answer

Question	A row in the simplex table whose elements represent the decrease in the value of the objective function if one unit of jth variables is brought into the solution is :-
Correct Answer	Z_j row
Your Answer	$(Z_j - C_j)$ row (or index row)

Select The Blank

Question	_____ is an extra row or column in a tableau.
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Multiple Answer

Question	Which of the following are examples of tactical decisions?
Correct Answer	Loading and scheduling of jobs , Acceptance or rejection of excess quantity against delivery schedule , Splitting of raw material requirement among suppliers
Your Answer	Loading and scheduling of jobs , Acceptance or rejection of excess quantity against delivery schedule , Launching of a new product

True/False

Question	Adaptive decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	True

Select The Blank

Question	Positive non-zero values variables are called _____.
Correct Answer	Basic Variables
Your Answer	Basic Variables

Multiple Choice Multiple Answer

Question	Terminology NOT related with Linear Programming are :-
Correct Answer	Players , Payoff , Payoff Matrics
Your Answer	Objective Function

True/False

Question	Traffic intensity is product of average arrival rate & average service rate.
Correct Answer	False
Your Answer	True

Select The Blank

Question	Constraint not affecting the feasible solution is _____.
Correct Answer	Redundant Constraint
Your Answer	Redundant Constraint

Multiple Choice Single Answer

Question	Solution satisfying supply & demand conditions & yet may not be optimal is :-
Correct Answer	An Initial Feasible Solution
Your Answer	An Initial Feasible Solution

True/False

Question	Value of the subgame related to highest point in the feasible region is solution for $2 \times n$ game.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	The slack variables must take :-
Correct Answer	Positive Values
Your Answer	Both Values

Multiple Choice Multiple Answer

Question	Study of Process Capability is not related to :-
Correct Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis
Your Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis

Match The Following

Question	Correct Answer	Your Answer
Intersecting element is	The element at the intersection of other than key row & key column	The element at the intersection of key row & key column
Key Column is	The column with the largest negative index number	Row at the intersection of key row & key column
Key row is	The row with the smallest of the replacement ratios of the constraint rows	The row with the smallest of the replacement ratios of the constraint rows
Key element is	The element at the intersection of key row & key column	The element at the intersection of other than key row & key column

Multiple Choice Multiple Answer

Question	Which of the following are examples of basic decisions?
Correct Answer	Product mix , Plant location , Organisation structure
Your Answer	Decision on loan application by an employee , Plant location , Organisation structure

Select The Blank

Question	SOPs provide necessary base to select optimal solution is known as _____.
Correct Answer	Mechanistic Decisions
Your Answer	Analytical Decisions

Match The Following

Question	Correct Answer	Your Answer
Feasible Region	Defined by Constraints	Optimal Clause of Objective

Corner Points	Points of Intersection	Satisfy Constraints
Feasible Solution	Satisfy Constraints	Defined by Constraints
Optimal solution	Optimal Clause of Objective	Upper Limit

True/False

Question	LP problem cannot be solved by graphical or by simplex method.
Correct Answer	False
Your Answer	False

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative maximin

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

Multiple Choice Single Answer

Question	Assignment technique is useful in a situation where :-
Correct Answer	Certain number of tasks are required to be attached to equal number of facilities
Your Answer	Certain number of tasks are required to be assigned to one facility

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Mean arrival rate

Select The Blank

Question	Identify decision variables is _____ step of Graphical Method.
Correct Answer	First
Your Answer	First

True/False

Question	If a Linear Programming problem has no solution that satisfies all constraints, it is said to be feasible.
Correct Answer	True
Your Answer	False

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Saddle point occurs when :-
Correct Answer	Maximin = Minimax
Your Answer	Maximin > Minimax

Multiple Choice Single Answer

Question	Decision Variables are :-
Correct Answer	The unknowns to be determined from the solution to the model
Your Answer	The unknowns to be determined from the solution to the model

Multiple Choice Single Answer

Question	Graphical method can deal with :-
Correct Answer	Any number of constraints
Your Answer	Two constraints

Multiple Choice Multiple Answer

Question	Nomenclatures related to Transportation Problem are :-
Correct Answer	S , P , W
Your Answer	S , P , W

Multiple Choice Multiple Answer

Question	In solution of an assignment problem a row with zero costs is added and all the elements are multiplied by - 1, then the problem is of nature :-
Correct Answer	Unbalance assignment. , Maximization.
Your Answer	Prohibited assignments , Unbalance assignment. , Maximization.

Select The Blank

Question	A_____ is a graphic device to depict the sequence of decision to be made and the possible events that may occur.
Correct Answer	Decision tree
Your Answer	Decision tree

Select The Blank

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Correct Answer	FCFS or LCFS
Your Answer	FIFO or LIFO

Multiple Choice Single Answer

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Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

True/False

Question	Compute row & column values for stone squares is step for MODI method.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
----------	--

Correct Answer	Algorithm , Iteration , Slack variable
Your Answer	Algorithm , Minimax , Iteration

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
Correct Answer	Problem Formulation
Your Answer	Problem Formulation

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
Correct Answer	Linear programming , Sequencing model , Breakeven analysis
Your Answer	Linear programming , Sequencing model , Breakeven analysis

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the top management as a policy?
Correct Answer	Policy decisions
Your Answer	Policy decisions

Select The Blank

Question	The _____ represents consequences of the interactions of the decision alternatives and the chance events.
Correct Answer	Outcomes
Your Answer	Outcomes

####

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Select The Blank

Question	Decision Making under Conflict is termed as _____
Correct Answer	Competitive Strategies
Your Answer	Competitive Strategies

Select The Blank

Question	When both the players play their optimal strategies the resulting payoff is called _____ of game.
Correct Answer	Value
Your Answer	Maximin

Multiple Choice Multiple Answer

Question	Nomenclatures not related to Transportation Problem are :-
Correct Answer	S, P, L, D , S, P, W, M , T, P, W, D
Your Answer	S, P, L, D , S, P, W, M , T, P, W, D

True/False

Question	Analytical decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	True

True/False

Question	Service time can be either fixed & balanced layouts or it can be variable.
Correct Answer	True
Your Answer	True

Select The Blank

Question	LP decide on product quantities to maximize profit is _____.
Correct Answer	Product Mix Problems
Your Answer	Transportation Problems

True/False

Question	The graphical method is simple to understand & easy to use
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Point of intersection of pure strategies is called :-
Correct Answer	Value , Saddle point
Your Answer	Payoff , Value , Optimal strategy

True/False

Question	Sensitivity analysis can be illustrated easily by drawing the graph of the changes
Correct Answer	True
Your Answer	True

Match The Following

Question	Correct Answer	Your Answer
Political Risks	People Resistance	Institution
Financial Risks	ROI	CAD / CAM
Technical Risks	CAD / CAM	People Resistance
Functional Risks	HRD	ROI

Select The Blank

Question	In North West Corner Method, the _____ is handled
Correct Answer	Procedure of allocating units to cells
Your Answer	Satisfies supply & demand conditions

Multiple Choice Single Answer

Question	Linear Programming deciding on product quantities to maximize profit is called :-
Correct Answer	Product Mix Problems
Your Answer	Product Mix Problems

Select The Blank

Question	A row with higher elements is called _____ row.
Correct Answer	Dominating
Your Answer	Major

Select The Blank

Question	Number of customers in the queue plus those being serviced is _____.
Correct Answer	System Length
Your Answer	Queue length

Multiple Choice Multiple Answer

Question	In an assignment problem a machine is not capable of performing a job & number machines are one less than number of jobs, then the problem is :-
Correct Answer	Unbalanced assignment problem. , Prohibited assignment problem. , Minimization problem.
Your Answer	Maximization problems. , Unbalanced assignment problem. , Prohibited assignment problem.

True/False

Question	A game in which algebraic sum of gains of both the players after the play is not zero is called two person non zero sum
----------	---

game.
Correct Answer True
Your Answer True

Multiple Choice Single Answer

Question	Graphical method of Linear Programming is useful when a Linear Programming problem involves :-
Correct Answer	Two Variables
Your Answer	Two Variables

True/False

Question	Surplus variable is a variable used to convert a Less than or equal to constraint into equality by subtracting it from left hand side of the constraint.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Terms related to NWCM are :-
Correct Answer	Initial feasible solution , Allocation of units , Upper left hand corner
Your Answer	Initial feasible solution , Allocation of units , Upper left hand corner , Materials Distribution

True/False

Question	When number of minimum lines drawn covering all zero elements are less than number of columns/rows, more than one optimal solution exist.
Correct Answer	False
Your Answer	True

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x 2

Multiple Choice Multiple Answer

Question	Information to study an input process is :-
Correct Answer	Arrival distribution , Inter-arrival distribution , Mean arrival rate
Your Answer	Arrival distribution , Finance , Inter-arrival distribution

Multiple Choice Multiple Answer

Question	Which of the following can be considered as a general rules for data collection in the decision making process?
Correct Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded
Your Answer	The information should be subjected to checks and cross checks , Only organised and related facts should be collected , The information must be collected from the most reliable source

Select The Blank

Question	The _____ is concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement of action.
Correct Answer	Games theory
Your Answer	Games theory

Multiple Choice Multiple Answer

Question	Combination of strategies of players determines :-
Correct Answer	Outcomes , Payoff
Your Answer	Outcomes , Minimax , Saddle point

True/False

Question	Decision alternatives must not be mutually exclusive.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Value of a game having saddle point equals :-
Correct Answer	Saddle point
Your Answer	Saddle point

Multiple Choice Multiple Answer

Question	Pure strategies are also called :-
Correct Answer	Minimax pure strategy , Maximin pure strategy , Optimal strategies
Your Answer	Minimax pure strategy , Maximin pure strategy , Mixed strategy

Match The Following

Question	Correct Answer	Your Answer
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Sem-4 (Operations) -- Quantitative Techniques

Transportation Tableau	Data on shipping costs	Data on shipping costs
Transportation Problem	Transportation of goods or services	Supply points equals total demand
Balanced Transportation Problem	Supply points equals total demand	Mechanism of Operation
Un-balanced Transportation Problem	Supply points does not equal demand	Transportation of goods or services

Multiple Choice Multiple Answer

Question	Special cases on simplex method are :-
Correct Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution
Your Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution

Multiple Choice Single Answer

Question	Linear Programming develop a work schedule to meet staff needs at all hours with minimum number of employees is called as :-
Correct Answer	Staffing Problems
Your Answer	Staffing Problems

True/False

Question	A 2x2 mixed strategy game is solved by 1 mere programming.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Various Quantitative Techniques are :-
Correct Answer	Linear Programming , Replacement Theory , Queuing Theory
Your Answer	Linear Programming , Replacement Theory , Queuing Theory

True/False

Question	Static decisions are essentially not a one time decisions.
Correct Answer	False
Your Answer	True

Select The Blank

Question	_____ is called Stepping Stone Method.
Correct Answer	Unoccupied cells to achieve solution

Your Answer	Avoidance of high penalty & high-cost
-------------	---------------------------------------

Select The Blank

Question	Decision Making under Un-certainty is called as _____.
----------	--

Correct Answer	Uncertain Situations
----------------	----------------------

Your Answer	Stochastic Model
-------------	------------------

Multiple Choice Single Answer

Question	Which of the decision theory model indicates the situations where consequences of each act of decision maker are influenced by acts of opponent?
----------	--

Correct Answer	Competitive strategies
----------------	------------------------

Your Answer	Deterministic models
-------------	----------------------

Multiple Choice Single Answer

Question	Time spent by Service Facility to render the service to a Customer is :-
----------	--

Correct Answer	Service time
----------------	--------------

Your Answer	Service time
-------------	--------------

Multiple Choice Single Answer

Question	In pure strategy game, strategies of players are represented by row and maximin is 4. There value and game is :-
----------	--

Correct Answer	4
----------------	---

Your Answer	-4
-------------	----

Multiple Choice Multiple Answer

Question	Words related to NWCM are :-
----------	------------------------------

Correct Answer	North , Corner , West
----------------	-----------------------

Your Answer	North , Corner , West , Mechanism
-------------	-----------------------------------

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
----------	---

Correct Answer	Iteration
----------------	-----------

Your Answer	Iteration
-------------	-----------

Multiple Choice Single Answer

Question	In a pure strategy game, probability of selection of his optimal strategy by a player is :-
----------	---

Correct Answer	1
----------------	---

Your Answer	Zero
-------------	------

Multiple Choice Single Answer

Question	Linear Programming is one of the most popular techniques of :-
Correct Answer	Operation Research
Your Answer	Operation Research

Multiple Choice Multiple Answer

Question	Terms relating to LP are :-
Correct Answer	Constraints , Objective Function , Non-Negativity Condition
Your Answer	Constraints , Objective Function , Non-Negativity Condition

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the lower levels of management as an outcome of policy decision?
Correct Answer	Operating decision
Your Answer	Personal decision

Multiple Choice Single Answer

Question	Study of Comparable Past Events & Forecasting Future Events is :-
Correct Answer	Probability Theory
Your Answer	Probability Theory

Select The Blank

Question	A game in which there are two competing parties is called _____ game.
Correct Answer	2 person
Your Answer	2 x 3

####

Match The Following

Question	Correct Answer	Your Answer
Least Cost Method	Procedure of allocating units to cost	Satisfies supply & demand conditions
Dummy source or Destination	Extra row or column in a tableau	Extra row or column in a tableau
An Initial Feasible Solution	Satisfies supply & demand conditions	Mechanism of Operation
North West Corner Method	Procedure of allocating units to cells	Procedure of allocating units to cost

Select The Blank

Question	Brown's algorithm is used to solve _____ 2 persons zero game sum.
Correct Answer	m x n
Your Answer	m x n

Match The Following

Question	Correct Answer	Your Answer
MODI Method	Water cells to achieve solution	Water cells to achieve solution
Vogel's Approximation Method (VAM)	Avoidance of high penalty & high-cost	Avoidance of high penalty & high-cost
Degeneracy	Occupied cells are less than (m+n-1)	Occupied cells are less than (m+n-1)
Stepping Stone Method	Unoccupied cells to achieve solution	Unoccupied cells to achieve solution

True/False

Question	Smallest element in each row is subtracted from each element in the column.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Terminologies of Graphical Method are :-
Correct Answer	Constraints , Graph of linear equality/inequality , Half Space
Your Answer	Constraints , Graph of linear equality/inequality , Half Space , Payoff

Multiple Choice Single Answer

Question	Feasible Region is :-
Correct Answer	Region defined by the Constraints & non-negative restrictions
Your Answer	Region defined by the Constraints & non-negative restrictions

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

True/False

Question	Allocations are independent when it is not possible to alter any individual allocations.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Participants of the game are :-
Correct Answer	Players , Decision maker
Your Answer	Players , Decision maker , Payoffs , Elements

True/False

Question	A game in which algebraic sum of gains of both the players after the play is not zero is called two person non zero sum game.
Correct Answer	True
Your Answer	True

Select The Blank

Question	A mixed strategy 2 x 2 game is solved by _____ method.
Correct Answer	Algebraic
Your Answer	Linear programming

True/False

Question	Infeasibility is the condition in which the Linear Programming problem permits no feasible combination of the decision variables.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Every combination of strategies of players determines an outcomes called :-
Correct Answer	Pay off
Your Answer	Pay off

True/False

Question	Value of game to player II is negative of minimax value.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	In a standard minimization problem, objective is to :-
----------	--

Correct Answer Minimize total time. , Minimize total cost.

Your Answer Minimize total time. , Minimize total cost. , Find alternative optimal solution. , Allocate each task to each facility.

Multiple Choice Multiple Answer

Question Objects too can form queues as :-

Correct Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground

Your Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground , Finance

Select The Blank

Question The _____ is a method for deciding how to meet some desired objective which may be profit maximisation or cost minimization, subject to constraints on the amounts of commodities required or resources available.

Correct Answer Linear programming

Your Answer Linear programming

Multiple Choice Multiple Answer

Question Feasible solution formula contains :-

Correct Answer $m, n, 1, m, n, 3, n, 1, x$

Your Answer $m, n, 1, m, n, 3, n, 1, x, m, 1, p$

Select The Blank

Question Team approach needs for optimal solution of _____ Decisions.

Correct Answer Adaptive

Your Answer Adaptive

Multiple Choice Single Answer

Question Transportation Tableau is :-

Correct Answer Tabular arrangement of data on demand, capacity & per unit shipping costs bet. supply point to destination

Your Answer Tabular arrangement of data on demand, capacity & per unit shipping costs bet. supply point to destination

Multiple Choice Multiple Answer

Question Which of the following elements are used to construct the pay off matrix?

Correct Answer Pay off , strategies , Probabilities

Your Answer Pay off , strategies , Decision tree , Probabilities

Multiple Choice Multiple Answer

Question	Resource Management involves
Correct Answer	Man , Machines , Materials
Your Answer	Man , Machines , Materials , Work Orders

Multiple Choice Single Answer

Question	Last Step of Graphical Method of LP is :-
Correct Answer	Calculate the total profit / loss
Your Answer	Calculate the total profit / loss

True/False

Question	Effective improvement over the initial feasible solution is included in MODI.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x 2

True/False

Question	Surplus variable is a variable used to convert a Less than or equal to constraint into equality by subtracting it from left hand side of the constraint.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Extra row or column in tableau, with zero cost in each of its cells, used to balance an unbalanced problem is :-
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Multiple Answer

Question	Games theory can solve :-
Correct Answer	Two person's game , Two persons zero sum game , Two persons 3 x 3 game
Your Answer	Two person's game , N Person's game , Two persons zero sum game , Two persons 3 x 3 game

True/False

Question	Resulting payoff of optional strategies is called outcome.
Correct Answer	False
Your Answer	True

Select The Blank

Question	A row with higher elements is called _____ row.
Correct Answer	Dominating
Your Answer	Major

Select The Blank

Question	Constraint not affecting the feasible solution is _____.
Correct Answer	Redundant Constraint
Your Answer	Redundant Constraint

True/False

Question	Value of the subgame related to highest point in the feasible region is solution for $2 \times n$ game.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Special cases on simplex method are :-
Correct Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution
Your Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution , Payoffs

Select The Blank

Question	The _____ represents consequences of the interactions of the decision alternatives and the chance events.
Correct Answer	Outcomes
Your Answer	Outcomes

Select The Blank

Question	Number of customers in the queue plus those being serviced is _____.
Correct Answer	System Length
Your Answer	System Length

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
Correct Answer	Iteration
Your Answer	Iteration

Multiple Choice Multiple Answer

Question	Terms related to LCM are :-
Correct Answer	Initial feasible solution , Lowest Cost Cells , Next Lowest & so on
Your Answer	Initial feasible solution , Lowest Cost Cells , Next Lowest & so on , Finance Distribution

Multiple Choice Multiple Answer

Question	Value of game equals :-
Correct Answer	Saddle points , Weighted average of possible outcomes
Your Answer	Saddle points , Weighted average of possible outcomes , Zero , Value of any sum game

Multiple Choice Single Answer

Question	Expected gain to a player if he and his opponent use their best strategies is known as :-
Correct Answer	Value of game
Your Answer	Optimal strategy

Multiple Choice Multiple Answer

Question	Procedural steps in LCM are :-
Correct Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column
Your Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column , Prepare a Methodological report

Multiple Choice Single Answer

Question	A mixed strategy is decision of player to select :-
Correct Answer	Different strategies
Your Answer	Different strategies

Select The Blank

Question	Comparable Past Event & Forecasting Future Events Study is called _____
Correct Answer	Probability Theory
Your Answer	Probability Theory

Multiple Choice Single Answer

Question	Vogel's Approximation Method (VAM) is :-
Correct Answer	A systematic procedure to obtain an initial feasible solution based on avoidance of high penalty & cost cell
Your Answer	A systematic procedure to obtain an initial feasible solution based on avoidance of high penalty & cost cell

Multiple Choice Single Answer

Question	There are more than one optimal solutions to an assignment problem when :-
Correct Answer	Number of independent zeros are more than required ones.
Your Answer	Number of minimum lines covering all zeros are more than number of rows/columns

Multiple Choice Single Answer

Question	In an unbalanced assignment problem :-
Correct Answer	One or more facilities remain idle.
Your Answer	One or more facilities remain idle.

Multiple Choice Single Answer

Question	The column with the largest negative index number is :-
Correct Answer	Key Column
Your Answer	Key Column

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Multiple Answer

Question	Queues are formed at :-
Correct Answer	Telephone booths , Bus stand , Traffic lights
Your Answer	Bus stand , Traffic lights , Telephone booths

Multiple Choice Multiple Answer

Question	Specification of the constraints are :-
Correct Answer	Vendors , Available Hours , Space
Your Answer	Vendors , Space , Materials

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative maximin

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

Multiple Choice Single Answer

Question	Assignment technique is useful in a situation where :-
Correct Answer	Certain number of tasks are required to be attached to equal number of facilities
Your Answer	Certain number of tasks are required to be assigned to one facility

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Mean arrival rate

Select The Blank

Question	Identify decision variables is _____ step of Graphical Method.
----------	--

Correct Answer	First
----------------	-------

Your Answer	First
-------------	-------

True/False

Question	If a Linear Programming problem has no solution that satisfies all constraints, it is said to be feasible.
----------	--

Correct Answer	True
----------------	------

Your Answer	False
-------------	-------

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
----------	---

Correct Answer	True
----------------	------

Your Answer	True
-------------	------

Multiple Choice Single Answer

Question	Saddle point occurs when :-
----------	-----------------------------

Correct Answer	Maximin = Minimax
----------------	-------------------

Your Answer	Maximin > Minimax
-------------	-------------------

Multiple Choice Single Answer

Question	Decision Variables are :-
----------	---------------------------

Correct Answer	The unknowns to be determined from the solution to the model
----------------	--

Your Answer	The unknowns to be determined from the solution to the model
-------------	--

Multiple Choice Single Answer

Question	Graphical method can deal with :-
----------	-----------------------------------

Correct Answer	Any number of constraints
----------------	---------------------------

Your Answer	Two constraints
-------------	-----------------

Multiple Choice Multiple Answer

Question	Nomenclatures related to Transportation Problem are :-
----------	--

Correct Answer	S , P , W
----------------	-----------

Your Answer	S , P , W
-------------	-----------

Multiple Choice Multiple Answer

Question	In solution of an assignment problem a row with zero costs is added and all the elements are multiplied by - 1, then the problem is of nature :-
----------	--

Correct Answer	Unbalance assignment. , Maximization.
Your Answer	Prohibited assignments , Unbalance assignment. , Maximization.

Select The Blank

Question	A_____ is a graphic device to depict the sequence of decision to be made and the possible events that may occur.
Correct Answer	Decision tree
Your Answer	Decision tree

Select The Blank

Question	Terminology for Service Distribution is _____
Correct Answer	FCFS or LCFS
Your Answer	FIFO or LIFO

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

True/False

Question	Compute row & column values for stone squares is step for MODI method.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False

Your Answer	True
-------------	------

Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
----------	--

Correct Answer	Algorithm , Iteration , Slack variable
----------------	--

Your Answer	Algorithm , Minimax , Iteration
-------------	---------------------------------

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
----------	--

Correct Answer	Problem Formulation
----------------	---------------------

Your Answer	Problem Formulation
-------------	---------------------

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
----------	---

Correct Answer	Linear programming , Sequencing model , Breakeven analysis
----------------	--

Your Answer	Linear programming , Sequencing model , Breakeven analysis
-------------	--

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the top management as a policy?
----------	--

Correct Answer	Policy decisions
----------------	------------------

Your Answer	Policy decisions
-------------	------------------

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Multiple Answer

Question	Queues are formed at :-
----------	-------------------------

Correct Answer	Telephone booths , Bus stand , Traffic lights
----------------	---

Your Answer	Telephone booths , Bus stand , Traffic lights
-------------	---

Multiple Choice Multiple Answer

Question	Specification of the constraints are :-
----------	---

Correct Answer	Vendors , Available Hours , Space
----------------	-----------------------------------

Your Answer	Vendors , Space , Materials
-------------	-----------------------------

Multiple Choice Single Answer

Question	Which of the following is an example of a policy decision?
Correct Answer	Increment and promotion policy
Your Answer	Increment and promotion policy

Multiple Choice Multiple Answer

Question	Basic assumption in a play are :-
Correct Answer	Choice of strategy by players is simultaneous , No player knows choice of his opponent
Your Answer	Strategies are always pure , Choice of strategy by players is simultaneous , Strategies are always mixed

True/False

Question	A 2x2 mixed strategy game is solved by algebraic method.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	When number of tasks and number of facilities are not equal :-
Correct Answer	Some tasks may remain unassigned. , Some facilities may remain idle.
Your Answer	Some tasks may remain unassigned. , Some facilities may remain idle.

Multiple Choice Single Answer

Question	A row in the simplex table whose elements represent the decrease in the value of the objective function if one unit of jth variables is brought into the solution is :-
Correct Answer	Z_j row
Your Answer	$(Z_j - C_j)$ row (or index row)

Select The Blank

Question	_____ is an extra row or column in a tableau.
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Multiple Answer

Question	Which of the following are examples of tactical decisions?
Correct Answer	Loading and scheduling of jobs , Acceptance or rejection of excess quantity against delivery schedule , Splitting of raw material requirement among suppliers
Your Answer	Loading and scheduling of jobs , Acceptance or rejection of excess quantity against delivery schedule , Launching of a new product

True/False

Question	Adaptive decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	True

Select The Blank

Question	Positive non-zero values variables are called _____.
Correct Answer	Basic Variables
Your Answer	Basic Variables

Multiple Choice Multiple Answer

Question	Terminology NOT related with Linear Programming are :-
Correct Answer	Players , Payoff , Payoff Matrics
Your Answer	Objective Function

True/False

Question	Traffic intensity is product of average arrival rate & average service rate.
Correct Answer	False
Your Answer	True

Select The Blank

Question	Constraint not affecting the feasible solution is _____.
Correct Answer	Redundant Constraint
Your Answer	Redundant Constraint

Multiple Choice Single Answer

Question	Solution satisfying supply & demand conditions & yet may not be optimal is :-
Correct Answer	An Initial Feasible Solution
Your Answer	An Initial Feasible Solution

True/False

Question	Value of the subgame related to highest point in the feasible region is solution for $2 \times n$ game.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	The slack variables must take :-
Correct Answer	Positive Values
Your Answer	Both Values

Multiple Choice Multiple Answer

Question	Study of Process Capability is not related to :-
Correct Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis
Your Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis

Match The Following

Question	Correct Answer	Your Answer
Intersecting element is	The element at the intersection of other than key row & key column	The element at the intersection of key row & key column
Key Column is	The column with the largest negative index number	Row at the intersection of key row & key column
Key row is	The row with the smallest of the replacement ratios of the constraint rows	The row with the smallest of the replacement ratios of the constraint rows
Key element is	The element at the intersection of key row & key column	The element at the intersection of other than key row & key column

Multiple Choice Multiple Answer

Question	Which of the following are examples of basic decisions?
Correct Answer	Product mix , Plant location , Organisation structure
Your Answer	Decision on loan application by an employee , Plant location , Organisation structure

Select The Blank

Question	SOPs provide necessary base to select optimal solution is known as _____.
Correct Answer	Mechanistic Decisions
Your Answer	Analytical Decisions

Match The Following

Question	Correct Answer	Your Answer
Feasible Region	Defined by Constraints	Optimal Clause of Objective

Corner Points	Points of Intersection	Satisfy Constraints
Feasible Solution	Satisfy Constraints	Defined by Constraints
Optimal solution	Optimal Clause of Objective	Upper Limit

True/False

Question	LP problem cannot be solved by graphical or by simplex method.
Correct Answer	False
Your Answer	False

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative maximin

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

Multiple Choice Single Answer

Question	Assignment technique is useful in a situation where :-
Correct Answer	Certain number of tasks are required to be attached to equal number of facilities
Your Answer	Certain number of tasks are required to be assigned to one facility

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Mean arrival rate

Select The Blank

Question	Identify decision variables is _____ step of Graphical Method.
Correct Answer	First
Your Answer	First

True/False

Question	If a Linear Programming problem has no solution that satisfies all constraints, it is said to be feasible.
Correct Answer	True
Your Answer	False

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Saddle point occurs when :-
Correct Answer	Maximin = Minimax
Your Answer	Maximin > Minimax

Multiple Choice Single Answer

Question	Decision Variables are :-
Correct Answer	The unknowns to be determined from the solution to the model
Your Answer	The unknowns to be determined from the solution to the model

Multiple Choice Single Answer

Question	Graphical method can deal with :-
Correct Answer	Any number of constraints
Your Answer	Two constraints

Multiple Choice Multiple Answer

Question	Nomenclatures related to Transportation Problem are :-
Correct Answer	S , P , W
Your Answer	S , P , W

Multiple Choice Multiple Answer

Question	In solution of an assignment problem a row with zero costs is added and all the elements are multiplied by - 1, then the problem is of nature :-
Correct Answer	Unbalance assignment. , Maximization.
Your Answer	Prohibited assignments , Unbalance assignment. , Maximization.

Select The Blank

Question	A_____ is a graphic device to depict the sequence of decision to be made and the possible events that may occur.
Correct Answer	Decision tree
Your Answer	Decision tree

Select The Blank

Question	Terminology for Service Distribution is _____
Correct Answer	FCFS or LCFS
Your Answer	FIFO or LIFO

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

True/False

Question	Compute row & column values for stone squares is step for MODI method.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
----------	--

Correct Answer	Algorithm , Iteration , Slack variable
Your Answer	Algorithm , Minimax , Iteration

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
Correct Answer	Problem Formulation
Your Answer	Problem Formulation

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
Correct Answer	Linear programming , Sequencing model , Breakeven analysis
Your Answer	Linear programming , Sequencing model , Breakeven analysis

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the top management as a policy?
Correct Answer	Policy decisions
Your Answer	Policy decisions

Select The Blank

Question	The _____ represents consequences of the interactions of the decision alternatives and the chance events.
Correct Answer	Outcomes
Your Answer	Outcomes

####

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Select The Blank

Question	Decision Making under Conflict is termed as _____
Correct Answer	Competitive Strategies
Your Answer	Competitive Strategies

Select The Blank

Question	When both the players play their optimal strategies the resulting payoff is called _____ of game.
Correct Answer	Value
Your Answer	Maximin

Multiple Choice Multiple Answer

Question	Nomenclatures not related to Transportation Problem are :-
Correct Answer	S, P, L, D , S, P, W, M , T, P, W, D
Your Answer	S, P, L, D , S, P, W, M , T, P, W, D

True/False

Question	Analytical decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	True

True/False

Question	Service time can be either fixed & balanced layouts or it can be variable.
Correct Answer	True
Your Answer	True

Select The Blank

Question	LP decide on product quantities to maximize profit is _____.
Correct Answer	Product Mix Problems
Your Answer	Transportation Problems

True/False

Question	The graphical method is simple to understand & easy to use
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Point of intersection of pure strategies is called :-
Correct Answer	Value , Saddle point
Your Answer	Payoff , Value , Optimal strategy

True/False

Question	Sensitivity analysis can be illustrated easily by drawing the graph of the changes
Correct Answer	True
Your Answer	True

Match The Following

Question	Correct Answer	Your Answer
Political Risks	People Resistance	Institution
Financial Risks	ROI	CAD / CAM
Technical Risks	CAD / CAM	People Resistance
Functional Risks	HRD	ROI

Select The Blank

Question	In North West Corner Method, the _____ is handled
Correct Answer	Procedure of allocating units to cells
Your Answer	Satisfies supply & demand conditions

Multiple Choice Single Answer

Question	Linear Programming deciding on product quantities to maximize profit is called :-
Correct Answer	Product Mix Problems
Your Answer	Product Mix Problems

Select The Blank

Question	A row with higher elements is called _____ row.
Correct Answer	Dominating
Your Answer	Major

Select The Blank

Question	Number of customers in the queue plus those being serviced is _____.
Correct Answer	System Length
Your Answer	Queue length

Multiple Choice Multiple Answer

Question	In an assignment problem a machine is not capable of performing a job & number machines are one less than number of jobs, then the problem is :-
Correct Answer	Unbalanced assignment problem. , Prohibited assignment problem. , Minimization problem.
Your Answer	Maximization problems. , Unbalanced assignment problem. , Prohibited assignment problem.

True/False

Question	A game in which algebraic sum of gains of both the players after the play is not zero is called two person non zero sum
----------	---

game.
Correct Answer True
Your Answer True

Multiple Choice Single Answer

Question	Graphical method of Linear Programming is useful when a Linear Programming problem involves :-
Correct Answer	Two Variables
Your Answer	Two Variables

True/False

Question	Surplus variable is a variable used to convert a Less than or equal to constraint into equality by subtracting it from left hand side of the constraint.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Terms related to NWCM are :-
Correct Answer	Initial feasible solution , Allocation of units , Upper left hand corner
Your Answer	Initial feasible solution , Allocation of units , Upper left hand corner , Materials Distribution

True/False

Question	When number of minimum lines drawn covering all zero elements are less than number of columns/rows, more than one optimal solution exist.
Correct Answer	False
Your Answer	True

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x 2

Multiple Choice Multiple Answer

Question	Information to study an input process is :-
Correct Answer	Arrival distribution , Inter-arrival distribution , Mean arrival rate
Your Answer	Arrival distribution , Finance , Inter-arrival distribution

Multiple Choice Multiple Answer

Question	Which of the following can be considered as a general rules for data collection in the decision making process?
Correct Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded
Your Answer	The information should be subjected to checks and cross checks , Only organised and related facts should be collected , The information must be collected from the most reliable source

Select The Blank

Question	The _____ is concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement of action.
Correct Answer	Games theory
Your Answer	Games theory

Multiple Choice Multiple Answer

Question	Combination of strategies of players determines :-
Correct Answer	Outcomes , Payoff
Your Answer	Outcomes , Minimax , Saddle point

True/False

Question	Decision alternatives must not be mutually exclusive.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Value of a game having saddle point equals :-
Correct Answer	Saddle point
Your Answer	Saddle point

Multiple Choice Multiple Answer

Question	Pure strategies are also called :-
Correct Answer	Minimax pure strategy , Maximin pure strategy , Optimal strategies
Your Answer	Minimax pure strategy , Maximin pure strategy , Mixed strategy

Match The Following

Question	Correct Answer	Your Answer
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Sem-4 (Operations) -- Quantitative Techniques

Transportation Tableau	Data on shipping costs	Data on shipping costs
Transportation Problem	Transportation of goods or services	Supply points equals total demand
Balanced Transportation Problem	Supply points equals total demand	Mechanism of Operation
Un-balanced Transportation Problem	Supply points does not equal demand	Transportation of goods or services

Multiple Choice Multiple Answer

Question	Special cases on simplex method are :-
Correct Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution
Your Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution

Multiple Choice Single Answer

Question	Linear Programming develop a work schedule to meet staff needs at all hours with minimum number of employees is called as :-
Correct Answer	Staffing Problems
Your Answer	Staffing Problems

True/False

Question	A 2x2 mixed strategy game is solved by 1 mere programming.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Various Quantitative Techniques are :-
Correct Answer	Linear Programming , Replacement Theory , Queuing Theory
Your Answer	Linear Programming , Replacement Theory , Queuing Theory

True/False

Question	Static decisions are essentially not a one time decisions.
Correct Answer	False
Your Answer	True

Select The Blank

Question	_____ is called Stepping Stone Method.
Correct Answer	Unoccupied cells to achieve solution

Your Answer	Avoidance of high penalty & high-cost
-------------	---------------------------------------

Select The Blank

Question	Decision Making under Un-certainty is called as _____.
----------	--

Correct Answer	Uncertain Situations
----------------	----------------------

Your Answer	Stochastic Model
-------------	------------------

Multiple Choice Single Answer

Question	Which of the decision theory model indicates the situations where consequences of each act of decision maker are influenced by acts of opponent?
----------	--

Correct Answer	Competitive strategies
----------------	------------------------

Your Answer	Deterministic models
-------------	----------------------

Multiple Choice Single Answer

Question	Time spent by Service Facility to render the service to a Customer is :-
----------	--

Correct Answer	Service time
----------------	--------------

Your Answer	Service time
-------------	--------------

Multiple Choice Single Answer

Question	In pure strategy game, strategies of players are represented by row and maximin is 4. There value and game is :-
----------	--

Correct Answer	4
----------------	---

Your Answer	-4
-------------	----

Multiple Choice Multiple Answer

Question	Words related to NWCM are :-
----------	------------------------------

Correct Answer	North , Corner , West
----------------	-----------------------

Your Answer	North , Corner , West , Mechanism
-------------	-----------------------------------

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
----------	---

Correct Answer	Iteration
----------------	-----------

Your Answer	Iteration
-------------	-----------

Multiple Choice Single Answer

Question	In a pure strategy game, probability of selection of his optimal strategy by a player is :-
----------	---

Correct Answer	1
----------------	---

Your Answer	Zero
-------------	------

Multiple Choice Single Answer

Question	Linear Programming is one of the most popular techniques of :-
Correct Answer	Operation Research
Your Answer	Operation Research

Multiple Choice Multiple Answer

Question	Terms relating to LP are :-
Correct Answer	Constraints , Objective Function , Non-Negativity Condition
Your Answer	Constraints , Objective Function , Non-Negativity Condition

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the lower levels of management as an outcome of policy decision?
Correct Answer	Operating decision
Your Answer	Personal decision

Multiple Choice Single Answer

Question	Study of Comparable Past Events & Forecasting Future Events is :-
Correct Answer	Probability Theory
Your Answer	Probability Theory

Select The Blank

Question	A game in which there are two competing parties is called _____ game.
Correct Answer	2 person
Your Answer	2 x 3

####

Match The Following

Question	Correct Answer	Your Answer
Least Cost Method	Procedure of allocating units to cost	Satisfies supply & demand conditions
Dummy source or Destination	Extra row or column in a tableau	Extra row or column in a tableau
An Initial Feasible Solution	Satisfies supply & demand conditions	Mechanism of Operation
North West Corner Method	Procedure of allocating units to cells	Procedure of allocating units to cost

Select The Blank

Question	Brown's algorithm is used to solve _____ 2 persons zero game sum.
Correct Answer	m x n
Your Answer	m x n

Match The Following

Question	Correct Answer	Your Answer
MODI Method	Water cells to achieve solution	Water cells to achieve solution
Vogel's Approximation Method (VAM)	Avoidance of high penalty & high-cost	Avoidance of high penalty & high-cost
Degeneracy	Occupied cells are less than (m+n-1)	Occupied cells are less than (m+n-1)
Stepping Stone Method	Unoccupied cells to achieve solution	Unoccupied cells to achieve solution

True/False

Question	Smallest element in each row is subtracted from each element in the column.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Terminologies of Graphical Method are :-
Correct Answer	Constraints , Graph of linear equality/inequality , Half Space
Your Answer	Constraints , Graph of linear equality/inequality , Half Space , Payoff

Multiple Choice Single Answer

Question	Feasible Region is :-
Correct Answer	Region defined by the Constraints & non-negative restrictions
Your Answer	Region defined by the Constraints & non-negative restrictions

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

True/False

Question	Allocations are independent when it is not possible to alter any individual allocations.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Participants of the game are :-
Correct Answer	Players , Decision maker
Your Answer	Players , Decision maker , Payoffs , Elements

True/False

Question	A game in which algebraic sum of gains of both the players after the play is not zero is called two person non zero sum game.
Correct Answer	True
Your Answer	True

Select The Blank

Question	A mixed strategy 2 x 2 game is solved by _____ method.
Correct Answer	Algebraic
Your Answer	Linear programming

True/False

Question	Infeasibility is the condition in which the Linear Programming problem permits no feasible combination of the decision variables.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Every combination of strategies of players determines an outcomes called :-
Correct Answer	Pay off
Your Answer	Pay off

True/False

Question	Value of game to player II is negative of minimax value.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	In a standard minimization problem, objective is to :-
----------	--

Correct Answer Minimize total time. , Minimize total cost.

Your Answer Minimize total time. , Minimize total cost. , Find alternative optimal solution. , Allocate each task to each facility.

Multiple Choice Multiple Answer

Question Objects too can form queues as :-

Correct Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground

Your Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground , Finance

Select The Blank

Question The _____ is a method for deciding how to meet some desired objective which may be profit maximisation or cost minimization, subject to constraints on the amounts of commodities required or resources available.

Correct Answer Linear programming

Your Answer Linear programming

Multiple Choice Multiple Answer

Question Feasible solution formula contains :-

Correct Answer $m, n, 1, m, n, 3, n, 1, x$

Your Answer $m, n, 1, m, n, 3, n, 1, x, m, 1, p$

Select The Blank

Question Team approach needs for optimal solution of _____ Decisions.

Correct Answer Adaptive

Your Answer Adaptive

Multiple Choice Single Answer

Question Transportation Tableau is :-

Correct Answer Tabular arrangement of data on demand, capacity & per unit shipping costs bet. supply point to destination

Your Answer Tabular arrangement of data on demand, capacity & per unit shipping costs bet. supply point to destination

Multiple Choice Multiple Answer

Question Which of the following elements are used to construct the pay off matrix?

Correct Answer Pay off , strategies , Probabilities

Your Answer Pay off , strategies , Decision tree , Probabilities

Multiple Choice Multiple Answer

Question	Resource Management involves
Correct Answer	Man , Machines , Materials
Your Answer	Man , Machines , Materials , Work Orders

Multiple Choice Single Answer

Question	Last Step of Graphical Method of LP is :-
Correct Answer	Calculate the total profit / loss
Your Answer	Calculate the total profit / loss

True/False

Question	Effective improvement over the initial feasible solution is included in MODI.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x 2

True/False

Question	Surplus variable is a variable used to convert a Less than or equal to constraint into equality by subtracting it from left hand side of the constraint.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Extra row or column in tableau, with zero cost in each of its cells, used to balance an unbalanced problem is :-
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Multiple Answer

Question	Games theory can solve :-
Correct Answer	Two person's game , Two persons zero sum game , Two persons 3 x 3 game
Your Answer	Two person's game , N Person's game , Two persons zero sum game , Two persons 3 x 3 game

True/False

Question	Resulting payoff of optional strategies is called outcome.
Correct Answer	False
Your Answer	True

Select The Blank

Question	A row with higher elements is called _____ row.
Correct Answer	Dominating
Your Answer	Major

Select The Blank

Question	Constraint not affecting the feasible solution is _____.
Correct Answer	Redundant Constraint
Your Answer	Redundant Constraint

True/False

Question	Value of the subgame related to highest point in the feasible region is solution for $2 \times n$ game.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Special cases on simplex method are :-
Correct Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution
Your Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution , Payoffs

Select The Blank

Question	The _____ represents consequences of the interactions of the decision alternatives and the chance events.
Correct Answer	Outcomes
Your Answer	Outcomes

Select The Blank

Question	Number of customers in the queue plus those being serviced is _____.
Correct Answer	System Length
Your Answer	System Length

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
Correct Answer	Iteration
Your Answer	Iteration

Multiple Choice Multiple Answer

Question	Terms related to LCM are :-
Correct Answer	Initial feasible solution , Lowest Cost Cells , Next Lowest & so on
Your Answer	Initial feasible solution , Lowest Cost Cells , Next Lowest & so on , Finance Distribution

Multiple Choice Multiple Answer

Question	Value of game equals :-
Correct Answer	Saddle points , Weighted average of possible outcomes
Your Answer	Saddle points , Weighted average of possible outcomes , Zero , Value of any sum game

Multiple Choice Single Answer

Question	Expected gain to a player if he and his opponent use their best strategies is known as :-
Correct Answer	Value of game
Your Answer	Optimal strategy

Multiple Choice Multiple Answer

Question	Procedural steps in LCM are :-
Correct Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column
Your Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column , Prepare a Methodological report

Multiple Choice Single Answer

Question	A mixed strategy is decision of player to select :-
Correct Answer	Different strategies
Your Answer	Different strategies

Select The Blank

Question	Comparable Past Event & Forecasting Future Events Study is called _____
Correct Answer	Probability Theory
Your Answer	Probability Theory

Multiple Choice Single Answer

Question	Vogel's Approximation Method (VAM) is :-
Correct Answer	A systematic procedure to obtain an initial feasible solution based on avoidance of high penalty & cost cell
Your Answer	A systematic procedure to obtain an initial feasible solution based on avoidance of high penalty & cost cell

Multiple Choice Single Answer

Question	There are more than one optimal solutions to an assignment problem when :-
Correct Answer	Number of independent zeros are more than required ones.
Your Answer	Number of minimum lines covering all zeros are more than number of rows/columns

Multiple Choice Single Answer

Question	In an unbalanced assignment problem :-
Correct Answer	One or more facilities remain idle.
Your Answer	One or more facilities remain idle.

Multiple Choice Single Answer

Question	The column with the largest negative index number is :-
Correct Answer	Key Column
Your Answer	Key Column

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Match The Following

Question	Correct Answer	Your Answer
Least Cost Method	Procedure of allocating units to cost	Procedure of allocating units to cost
Dummy source or Destination	Extra row or column in a tableau	Extra row or column in a tableau
An Initial Feasible Solution	Satisfies supply & demand conditions	Satisfies supply & demand conditions
North West Corner Method	Procedure of allocating units to cells	Procedure of allocating units to cells

Multiple Choice Multiple Answer

Question	Value of the pure strategy game is :-
Correct Answer	Maximin for player I , Negative minimax for player II
Your Answer	Maximin for player I , Minimax for player I , Minimax for player II

True/False

Question	Constraint that does not affect the feasible solution is Redundant.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Materials Management involves :-
Correct Answer	Stores , Warehouses , Transportation
Your Answer	Stores , Warehouses , Transportation

True/False

Question	Graphical method is restricted to two variables.
Correct Answer	True
Your Answer	False

Multiple Choice Single Answer

Question	Study of Comparable Past Events & Forecasting Future Events is :-
----------	---

Correct Answer	Probability Theory
----------------	--------------------

Your Answer	Probability Theory
-------------	--------------------

Select The Blank

Question	To assign a task, a zero in a row/column with _____ zero is marked with square.
----------	---

Correct Answer	Exactly one
----------------	-------------

Your Answer	Exactly one
-------------	-------------

Multiple Choice Single Answer

Question	The column with the largest negative index number is :-
----------	---

Correct Answer	Key Column
----------------	------------

Your Answer	Key Column
-------------	------------

Multiple Choice Single Answer

Question	Decision of a player to play row corresponding to maximin value is called :-
----------	--

Correct Answer	Maximin Pure strategy
----------------	-----------------------

Your Answer	Pure strategy
-------------	---------------

Multiple Choice Single Answer

Question	In NWCM, N stands for :-
----------	--------------------------

Correct Answer	North
----------------	-------

Your Answer	North
-------------	-------

Multiple Choice Multiple Answer

Question	Terms relating to LP are :-
----------	-----------------------------

Correct Answer	Constraints , Objective Function , Non-Negativity Condition
----------------	---

Your Answer	Constraints , Objective Function , Non-Negativity Condition
-------------	---

True/False

Question	Decision alternatives must not be mutually exclusive.
----------	---

Correct Answer	False
----------------	-------

Your Answer	False
-------------	-------

Multiple Choice Multiple Answer

Question	Various Terms involved in Simplex Method are :-
Correct Answer	Key Element , Key Row , Key Column
Your Answer	Key Element , Key Row , Key Column

True/False

Question	When number of minimum lines drawn covering all zero elements are less than number of columns/rows, more than one optimal solution exist.
Correct Answer	False
Your Answer	False

True/False

Question	Resulting payoff of optional strategies is called outcome.
Correct Answer	False
Your Answer	False

Select The Blank

Question	Cash flows & determining Optimal investment proposal is _____.
Correct Answer	Investment Theory
Your Answer	Allocation Model

Select The Blank

Question	LP is most popular techniques of _____.
Correct Answer	Operation Research
Your Answer	Operation Research

True/False

Question	Though graphical method can deal with any number of a constraints but since each constraint is shown as a line on a graph, a large number of lines make the graph difficult to read.
Correct Answer	True
Your Answer	False

Match The Following

Question	Correct Answer	Your Answer
----------	----------------	-------------

Graphical Method Step 4	LPP Formulation	Calculate Profit/Cost
Graphical Method Step 1	Identify Decision Variables	Equation of Objective Function
Graphical Method Step 2	Equation of Objective Function	LPP Formulation
Graphical Method Step 3	Equation of Constraints	Graph Objective Function

Multiple Choice Single Answer

Question	If a mixed strategy game is and 2 x n size then the first step to solve the game is to:-
Correct Answer	Reduce game by dominance rule
Your Answer	Look for saddle point

Multiple Choice Multiple Answer

Question	Saddle points equals to :-
Correct Answer	Assigning task to facility , Maximin
Your Answer	Assigning task to facility , Zero , Maximin

Select The Blank

Question	Comparable Past Event & Forecasting Future Events Study is called _____
Correct Answer	Probability Theory
Your Answer	Probability Theory

Select The Blank

Question	Initial Feasible solution must have _____ allocations.
Correct Answer	(m+n-1)
Your Answer	(n-m-1)

Multiple Choice Multiple Answer

Question	Nomenclatures not related to Transportation Problem are :-
Correct Answer	T, P, W, D , S, P, L, D , S, P, W, M
Your Answer	S, P, L, D , S, P, W, M , T, P, W, D

True/False

Question	Traffic intensity is product of average arrival rate & average service rate.
----------	--

Correct Answer False

Your Answer False

Select The Blank

Question Dummy source has _____ cost.

Correct Answer Zero

Your Answer Zero

Multiple Choice Single Answer

Question Infeasible Solution :-

Correct Answer No solution satisfies all constraints

Your Answer No solution satisfies all constraints

Multiple Choice Multiple Answer

Question LP can be used to solve the problems of :-

Correct Answer Production , Materials , Marketing

Your Answer Production , Materials , Marketing

Multiple Choice Single Answer

Question What is MODI Method?

Correct Answer A systematic procedure for evaluating unoccupied (water) cells to achieve an optimal solution

Your Answer A systematic procedure for evaluating unoccupied (water) cells to achieve an optimal solution

Select The Blank

Question Minimax value sets _____ limit on game.

Correct Answer Upper

Your Answer Optimal

True/False

Question Analytical decisions involve problems with limited number of decision variables.

Correct Answer False

Your Answer False

Select The Blank

Question	Positive non-zero values variables are called _____.
Correct Answer	Basic Variables
Your Answer	Basic Variables

True/False

Question	Extra variable added to obtain an initial feasible solution to a LP problem is Artificial Variable.
Correct Answer	True
Your Answer	True

True/False

Question	Adaptive decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	False

Select The Blank

Question	Team approach needs for optimal solution of _____ Decisions.
Correct Answer	Adaptive
Your Answer	Adaptive

Select The Blank

Question	ISO-9001 QMS is for _____.
Correct Answer	Quality System
Your Answer	Quality System

Multiple Choice Multiple Answer

Question	In pure strategy game value is equal to :-
Correct Answer	Saddle point , Maximin , Minimax
Your Answer	Weighted average of possible outcome , Saddle point , Maximin

Multiple Choice Multiple Answer

Question	Game can have :-
Correct Answer	Mixed strategies , Pure strategies

Your Answer	Mixed strategies , Pure strategies , Single strategy
-------------	--

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
----------	---

Correct Answer	Iteration
----------------	-----------

Your Answer	Iteration
-------------	-----------

Multiple Choice Single Answer

Question	Graphical method can deal with how many constraints?
----------	--

Correct Answer	Any number
----------------	------------

Your Answer	Any number
-------------	------------

Multiple Choice Multiple Answer

Question	Terms related to NWCM are :-
----------	------------------------------

Correct Answer	Initial feasible solution , Allocation of units , Upper left hand corner
----------------	--

Your Answer	Initial feasible solution , Allocation of units , Upper left hand corner
-------------	--

Multiple Choice Multiple Answer

Question	Objects too can form queues as :-
----------	-----------------------------------

Correct Answer	Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground
----------------	---

Your Answer	Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground
-------------	---

Multiple Choice Single Answer

Question	A systematic procedure for evaluating unoccupied cells for optimal solution is :-
----------	---

Correct Answer	Stepping Stone Method
----------------	-----------------------

Your Answer	Stepping Stone Method
-------------	-----------------------

Multiple Choice Multiple Answer

Question	Pure strategies are also called :-
----------	------------------------------------

Correct Answer	Minimax pure strategy , Maximin pure strategy , Optimal strategies
----------------	--

Your Answer	Minimax pure strategy , Maximin pure strategy , Optimal strategies
-------------	--

Select The Blank

Question	Unbounded Solution is one which is _____.
Correct Answer	Permitted to be infinitely large
Your Answer	Which does not define the boundaries of the feasible solution

Multiple Choice Single Answer

Question	Redundant Constraint is :-
Correct Answer	Which does not define the boundaries of the feasible solution
Your Answer	Point that gives same optimal value

Multiple Choice Single Answer

Question	A Graph is :-
Correct Answer	Two-variable-linear-equation is always a Straight Line
Your Answer	Two-variable-linear-equation is always a Straight Line

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Multiple Answer

Question	Queues are formed at :-
Correct Answer	Telephone booths , Bus stand , Traffic lights
Your Answer	Bus stand , Traffic lights , Telephone booths

Multiple Choice Multiple Answer

Question	Specification of the constraints are :-
Correct Answer	Vendors , Available Hours , Space
Your Answer	Vendors , Space , Materials

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative maximin

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

Multiple Choice Single Answer

Question	Assignment technique is useful in a situation where :-
Correct Answer	Certain number of tasks are required to be attached to equal number of facilities
Your Answer	Certain number of tasks are required to be assigned to one facility

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Mean arrival rate

Select The Blank

Question	Identify decision variables is _____ step of Graphical Method.
----------	--

Correct Answer	First
----------------	-------

Your Answer	First
-------------	-------

True/False

Question	If a Linear Programming problem has no solution that satisfies all constraints, it is said to be feasible.
----------	--

Correct Answer	True
----------------	------

Your Answer	False
-------------	-------

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
----------	---

Correct Answer	True
----------------	------

Your Answer	True
-------------	------

Multiple Choice Single Answer

Question	Saddle point occurs when :-
----------	-----------------------------

Correct Answer	Maximin = Minimax
----------------	-------------------

Your Answer	Maximin > Minimax
-------------	-------------------

Multiple Choice Single Answer

Question	Decision Variables are :-
----------	---------------------------

Correct Answer	The unknowns to be determined from the solution to the model
----------------	--

Your Answer	The unknowns to be determined from the solution to the model
-------------	--

Multiple Choice Single Answer

Question	Graphical method can deal with :-
----------	-----------------------------------

Correct Answer	Any number of constraints
----------------	---------------------------

Your Answer	Two constraints
-------------	-----------------

Multiple Choice Multiple Answer

Question	Nomenclatures related to Transportation Problem are :-
----------	--

Correct Answer	S , P , W
----------------	-----------

Your Answer	S , P , W
-------------	-----------

Multiple Choice Multiple Answer

Question	In solution of an assignment problem a row with zero costs is added and all the elements are multiplied by - 1, then the problem is of nature :-
----------	--

Correct Answer	Unbalance assignment. , Maximization.
Your Answer	Prohibited assignments , Unbalance assignment. , Maximization.

Select The Blank

Question	A_____ is a graphic device to depict the sequence of decision to be made and the possible events that may occur.
Correct Answer	Decision tree
Your Answer	Decision tree

Select The Blank

Question	Terminology for Service Distribution is _____
Correct Answer	FCFS or LCFS
Your Answer	FIFO or LIFO

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

True/False

Question	Compute row & column values for stone squares is step for MODI method.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False

Your Answer	True
-------------	------

Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
----------	--

Correct Answer	Algorithm , Iteration , Slack variable
----------------	--

Your Answer	Algorithm , Minimax , Iteration
-------------	---------------------------------

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
----------	--

Correct Answer	Problem Formulation
----------------	---------------------

Your Answer	Problem Formulation
-------------	---------------------

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
----------	---

Correct Answer	Linear programming , Sequencing model , Breakeven analysis
----------------	--

Your Answer	Linear programming , Sequencing model , Breakeven analysis
-------------	--

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the top management as a policy?
----------	--

Correct Answer	Policy decisions
----------------	------------------

Your Answer	Policy decisions
-------------	------------------

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Multiple Choice Multiple Answer

Question	Queues are formed at :-
----------	-------------------------

Correct Answer	Telephone booths , Bus stand , Traffic lights
----------------	---

Your Answer	Telephone booths , Bus stand , Traffic lights
-------------	---

Multiple Choice Multiple Answer

Question	Specification of the constraints are :-
----------	---

Correct Answer	Vendors , Available Hours , Space
----------------	-----------------------------------

Your Answer	Vendors , Space , Materials
-------------	-----------------------------

Multiple Choice Single Answer

Question	Which of the following is an example of a policy decision?
Correct Answer	Increment and promotion policy
Your Answer	Increment and promotion policy

Multiple Choice Multiple Answer

Question	Basic assumption in a play are :-
Correct Answer	Choice of strategy by players is simultaneous , No player knows choice of his opponent
Your Answer	Strategies are always pure , Choice of strategy by players is simultaneous , Strategies are always mixed

True/False

Question	A 2x2 mixed strategy game is solved by algebraic method.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	When number of tasks and number of facilities are not equal :-
Correct Answer	Some tasks may remain unassigned. , Some facilities may remain idle.
Your Answer	Some tasks may remain unassigned. , Some facilities may remain idle.

Multiple Choice Single Answer

Question	A row in the simplex table whose elements represent the decrease in the value of the objective function if one unit of jth variables is brought into the solution is :-
Correct Answer	Z_j row
Your Answer	$(Z_j - C_j)$ row (or index row)

Select The Blank

Question	_____ is an extra row or column in a tableau.
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Multiple Answer

Question	Which of the following are examples of tactical decisions?
Correct Answer	Loading and scheduling of jobs , Acceptance or rejection of excess quantity against delivery schedule , Splitting of raw material requirement among suppliers
Your Answer	Loading and scheduling of jobs , Acceptance or rejection of excess quantity against delivery schedule , Launching of a new product

True/False

Question	Adaptive decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	True

Select The Blank

Question	Positive non-zero values variables are called _____.
Correct Answer	Basic Variables
Your Answer	Basic Variables

Multiple Choice Multiple Answer

Question	Terminology NOT related with Linear Programming are :-
Correct Answer	Players , Payoff , Payoff Matrics
Your Answer	Objective Function

True/False

Question	Traffic intensity is product of average arrival rate & average service rate.
Correct Answer	False
Your Answer	True

Select The Blank

Question	Constraint not affecting the feasible solution is _____.
Correct Answer	Redundant Constraint
Your Answer	Redundant Constraint

Multiple Choice Single Answer

Question	Solution satisfying supply & demand conditions & yet may not be optimal is :-
Correct Answer	An Initial Feasible Solution
Your Answer	An Initial Feasible Solution

True/False

Question	Value of the subgame related to highest point in the feasible region is solution for $2 \times n$ game.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	The slack variables must take :-
Correct Answer	Positive Values
Your Answer	Both Values

Multiple Choice Multiple Answer

Question	Study of Process Capability is not related to :-
Correct Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis
Your Answer	Reliability Engineering , Statistical Process Control , Correlation & Regression Analysis

Match The Following

Question	Correct Answer	Your Answer
Intersecting element is	The element at the intersection of other than key row & key column	The element at the intersection of key row & key column
Key Column is	The column with the largest negative index number	Row at the intersection of key row & key column
Key row is	The row with the smallest of the replacement ratios of the constraint rows	The row with the smallest of the replacement ratios of the constraint rows
Key element is	The element at the intersection of key row & key column	The element at the intersection of other than key row & key column

Multiple Choice Multiple Answer

Question	Which of the following are examples of basic decisions?
Correct Answer	Product mix , Plant location , Organisation structure
Your Answer	Decision on loan application by an employee , Plant location , Organisation structure

Select The Blank

Question	SOPs provide necessary base to select optimal solution is known as _____.
Correct Answer	Mechanistic Decisions
Your Answer	Analytical Decisions

Match The Following

Question	Correct Answer	Your Answer
Feasible Region	Defined by Constraints	Optimal Clause of Objective

Corner Points	Points of Intersection	Satisfy Constraints
Feasible Solution	Satisfy Constraints	Defined by Constraints
Optimal solution	Optimal Clause of Objective	Upper Limit

True/False

Question	LP problem cannot be solved by graphical or by simplex method.
Correct Answer	False
Your Answer	False

Multiple Choice Single Answer

Question	In a pure strategy game, the value of game to player II is maximin, then for player and the value is :-
Correct Answer	Negative minimax
Your Answer	Negative maximin

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

Multiple Choice Single Answer

Question	Assignment technique is useful in a situation where :-
Correct Answer	Certain number of tasks are required to be attached to equal number of facilities
Your Answer	Certain number of tasks are required to be assigned to one facility

Select The Blank

Question	In waiting line, important characteristic commonly set to study is _____.
Correct Answer	Queue length
Your Answer	Mean arrival rate

Select The Blank

Question	Identify decision variables is _____ step of Graphical Method.
Correct Answer	First
Your Answer	First

True/False

Question	If a Linear Programming problem has no solution that satisfies all constraints, it is said to be feasible.
Correct Answer	True
Your Answer	False

True/False

Question	There is one queue & one server in the service facility is Single Queue: Single Server.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Saddle point occurs when :-
Correct Answer	Maximin = Minimax
Your Answer	Maximin > Minimax

Multiple Choice Single Answer

Question	Decision Variables are :-
Correct Answer	The unknowns to be determined from the solution to the model
Your Answer	The unknowns to be determined from the solution to the model

Multiple Choice Single Answer

Question	Graphical method can deal with :-
Correct Answer	Any number of constraints
Your Answer	Two constraints

Multiple Choice Multiple Answer

Question	Nomenclatures related to Transportation Problem are :-
Correct Answer	S , P , W
Your Answer	S , P , W

Multiple Choice Multiple Answer

Question	In solution of an assignment problem a row with zero costs is added and all the elements are multiplied by - 1, then the problem is of nature :-
Correct Answer	Unbalance assignment. , Maximization.
Your Answer	Prohibited assignments , Unbalance assignment. , Maximization.

Select The Blank

Question	A _____ is a graphic device to depict the sequence of decision to be made and the possible events that may occur.
Correct Answer	Decision tree
Your Answer	Decision tree

Select The Blank

Question	Terminology for Service Distribution is _____
Correct Answer	FCFS or LCFS
Your Answer	FIFO or LIFO

Multiple Choice Single Answer

Question	Graphical method deals with problem of :-
Correct Answer	Both Maximization & Minimization
Your Answer	Both Maximization & Minimization

Multiple Choice Single Answer

Question	Linear Programming find the quantity of components to be used at :-
Correct Answer	Minimum Cost
Your Answer	Minimum Cost

True/False

Question	Compute row & column values for stone squares is step for MODI method.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

True/False

Question	By application of dominance rule final solution is affected.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Different Terms related to Simplex Method are :-
----------	--

Correct Answer	Algorithm , Iteration , Slack variable
Your Answer	Algorithm , Minimax , Iteration

Select The Blank

Question	Mathematical Model Construction from the given data is known as _____.
Correct Answer	Problem Formulation
Your Answer	Problem Formulation

Multiple Choice Multiple Answer

Question	Which of the following techniques and models are used to deal with decision making under certainty?
Correct Answer	Linear programming , Sequencing model , Breakeven analysis
Your Answer	Linear programming , Sequencing model , Breakeven analysis

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the top management as a policy?
Correct Answer	Policy decisions
Your Answer	Policy decisions

Select The Blank

Question	The _____ represents consequences of the interactions of the decision alternatives and the chance events.
Correct Answer	Outcomes
Your Answer	Outcomes

####

LIST OF ATTEMPTED QUESTIONS AND ANSWERS

Select The Blank

Question	Decision Making under Conflict is termed as _____
Correct Answer	Competitive Strategies
Your Answer	Competitive Strategies

Select The Blank

Question	When both the players play their optimal strategies the resulting payoff is called _____ of game.
Correct Answer	Value
Your Answer	Maximin

Multiple Choice Multiple Answer

Question	Nomenclatures not related to Transportation Problem are :-
Correct Answer	S, P, L, D , S, P, W, M , T, P, W, D
Your Answer	S, P, L, D , S, P, W, M , T, P, W, D

True/False

Question	Analytical decisions involve problems with limited number of decision variables.
Correct Answer	False
Your Answer	True

True/False

Question	Service time can be either fixed & balanced layouts or it can be variable.
Correct Answer	True
Your Answer	True

Select The Blank

Question	LP decide on product quantities to maximize profit is _____.
Correct Answer	Product Mix Problems
Your Answer	Transportation Problems

True/False

Question	The graphical method is simple to understand & easy to use
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Point of intersection of pure strategies is called :-
Correct Answer	Value , Saddle point
Your Answer	Payoff , Value , Optimal strategy

True/False

Question	Sensitivity analysis can be illustrated easily by drawing the graph of the changes
Correct Answer	True
Your Answer	True

Match The Following

Question	Correct Answer	Your Answer
Political Risks	People Resistance	Institution
Financial Risks	ROI	CAD / CAM
Technical Risks	CAD / CAM	People Resistance
Functional Risks	HRD	ROI

Select The Blank

Question	In North West Corner Method, the _____ is handled
Correct Answer	Procedure of allocating units to cells
Your Answer	Satisfies supply & demand conditions

Multiple Choice Single Answer

Question	Linear Programming deciding on product quantities to maximize profit is called :-
Correct Answer	Product Mix Problems
Your Answer	Product Mix Problems

Select The Blank

Question	A row with higher elements is called _____ row.
Correct Answer	Dominating
Your Answer	Major

Select The Blank

Question	Number of customers in the queue plus those being serviced is _____.
Correct Answer	System Length
Your Answer	Queue length

Multiple Choice Multiple Answer

Question	In an assignment problem a machine is not capable of performing a job & number machines are one less than number of jobs, then the problem is :-
Correct Answer	Unbalanced assignment problem. , Prohibited assignment problem. , Minimization problem.
Your Answer	Maximization problems. , Unbalanced assignment problem. , Prohibited assignment problem.

True/False

Question	A game in which algebraic sum of gains of both the players after the play is not zero is called two person non zero sum
----------	---

	game.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Graphical method of Linear Programming is useful when a Linear Programming problem involves :-
Correct Answer	Two Variables
Your Answer	Two Variables

True/False

Question	Surplus variable is a variable used to convert a Less than or equal to constraint into equality by subtracting it from left hand side of the constraint.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Terms related to NWCM are :-
Correct Answer	Initial feasible solution , Allocation of units , Upper left hand corner
Your Answer	Initial feasible solution , Allocation of units , Upper left hand corner , Materials Distribution

True/False

Question	When number of minimum lines drawn covering all zero elements are less than number of columns/rows, more than one optimal solution exist.
Correct Answer	False
Your Answer	True

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x 2

Multiple Choice Multiple Answer

Question	Information to study an input process is :-
Correct Answer	Arrival distribution , Inter-arrival distribution , Mean arrival rate
Your Answer	Arrival distribution , Finance , Inter-arrival distribution

Multiple Choice Multiple Answer

Question	Which of the following can be considered as a general rules for data collection in the decision making process?
Correct Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded
Your Answer	The information should be subjected to checks and cross checks , Only organised and related facts should be collected , The information must be collected from the most reliable source

Select The Blank

Question	The _____ is concerned with situations of conflicts between two or more opposed sets of interests to devise optimum strategies prior to commencement of action.
Correct Answer	Games theory
Your Answer	Games theory

Multiple Choice Multiple Answer

Question	Combination of strategies of players determines :-
Correct Answer	Outcomes , Payoff
Your Answer	Outcomes , Minimax , Saddle point

True/False

Question	Decision alternatives must not be mutually exclusive.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Value of a game having saddle point equals :-
Correct Answer	Saddle point
Your Answer	Saddle point

Multiple Choice Multiple Answer

Question	Pure strategies are also called :-
Correct Answer	Minimax pure strategy , Maximin pure strategy , Optimal strategies
Your Answer	Minimax pure strategy , Maximin pure strategy , Mixed strategy

Match The Following

Question	Correct Answer	Your Answer
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Sem-4 (Operations) -- Quantitative Techniques

Transportation Tableau	Data on shipping costs	Data on shipping costs
Transportation Problem	Transportation of goods or services	Supply points equals total demand
Balanced Transportation Problem	Supply points equals total demand	Mechanism of Operation
Un-balanced Transportation Problem	Supply points does not equal demand	Transportation of goods or services

Multiple Choice Multiple Answer

Question	Special cases on simplex method are :-
Correct Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution
Your Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution

Multiple Choice Single Answer

Question	Linear Programming develop a work schedule to meet staff needs at all hours with minimum number of employees is called as :-
Correct Answer	Staffing Problems
Your Answer	Staffing Problems

True/False

Question	A 2x2 mixed strategy game is solved by 1 mere programming.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Various Quantitative Techniques are :-
Correct Answer	Linear Programming , Replacement Theory , Queuing Theory
Your Answer	Linear Programming , Replacement Theory , Queuing Theory

True/False

Question	Static decisions are essentially not a one time decisions.
Correct Answer	False
Your Answer	True

Select The Blank

Question	_____ is called Stepping Stone Method.
Correct Answer	Unoccupied cells to achieve solution

Your Answer	Avoidance of high penalty & high-cost
-------------	---------------------------------------

Select The Blank

Question	Decision Making under Un-certainty is called as _____.
----------	--

Correct Answer	Uncertain Situations
----------------	----------------------

Your Answer	Stochastic Model
-------------	------------------

Multiple Choice Single Answer

Question	Which of the decision theory model indicates the situations where consequences of each act of decision maker are influenced by acts of opponent?
----------	--

Correct Answer	Competitive strategies
----------------	------------------------

Your Answer	Deterministic models
-------------	----------------------

Multiple Choice Single Answer

Question	Time spent by Service Facility to render the service to a Customer is :-
----------	--

Correct Answer	Service time
----------------	--------------

Your Answer	Service time
-------------	--------------

Multiple Choice Single Answer

Question	In pure strategy game, strategies of players are represented by row and maximin is 4. There value and game is :-
----------	--

Correct Answer	4
----------------	---

Your Answer	-4
-------------	----

Multiple Choice Multiple Answer

Question	Words related to NWCM are :-
----------	------------------------------

Correct Answer	North , Corner , West
----------------	-----------------------

Your Answer	North , Corner , West , Mechanism
-------------	-----------------------------------

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
----------	---

Correct Answer	Iteration
----------------	-----------

Your Answer	Iteration
-------------	-----------

Multiple Choice Single Answer

Question	In a pure strategy game, probability of selection of his optimal strategy by a player is :-
----------	---

Correct Answer	1
----------------	---

Your Answer	Zero
-------------	------

Multiple Choice Single Answer

Question	Linear Programming is one of the most popular techniques of :-
Correct Answer	Operation Research
Your Answer	Operation Research

Multiple Choice Multiple Answer

Question	Terms relating to LP are :-
Correct Answer	Constraints , Objective Function , Non-Negativity Condition
Your Answer	Constraints , Objective Function , Non-Negativity Condition

Multiple Choice Single Answer

Question	What do you mean by the decisions taken by the lower levels of management as an outcome of policy decision?
Correct Answer	Operating decision
Your Answer	Personal decision

Multiple Choice Single Answer

Question	Study of Comparable Past Events & Forecasting Future Events is :-
Correct Answer	Probability Theory
Your Answer	Probability Theory

Select The Blank

Question	A game in which there are two competing parties is called _____ game.
Correct Answer	2 person
Your Answer	2 x 3

####

Match The Following

Question	Correct Answer	Your Answer
Least Cost Method	Procedure of allocating units to cost	Satisfies supply & demand conditions
Dummy source or Destination	Extra row or column in a tableau	Extra row or column in a tableau
An Initial Feasible Solution	Satisfies supply & demand conditions	Mechanism of Operation
North West Corner Method	Procedure of allocating units to cells	Procedure of allocating units to cost

Select The Blank

Question	Brown's algorithm is used to solve _____ 2 persons zero game sum.
Correct Answer	m x n
Your Answer	m x n

Match The Following

Question	Correct Answer	Your Answer
MODI Method	Water cells to achieve solution	Water cells to achieve solution
Vogel's Approximation Method (VAM)	Avoidance of high penalty & high-cost	Avoidance of high penalty & high-cost
Degeneracy	Occupied cells are less than (m+n-1)	Occupied cells are less than (m+n-1)
Stepping Stone Method	Unoccupied cells to achieve solution	Unoccupied cells to achieve solution

True/False

Question	Smallest element in each row is subtracted from each element in the column.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	Terminologies of Graphical Method are :-
Correct Answer	Constraints , Graph of linear equality/inequality , Half Space
Your Answer	Constraints , Graph of linear equality/inequality , Half Space , Payoff

Multiple Choice Single Answer

Question	Feasible Region is :-
Correct Answer	Region defined by the Constraints & non-negative restrictions
Your Answer	Region defined by the Constraints & non-negative restrictions

Select The Blank

Question	The action of "Only few Customers may join Queue & some may demand service on their behalf" is called _____
Correct Answer	Collusion
Your Answer	Collusion

True/False

Question	Allocations are independent when it is not possible to alter any individual allocations.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Participants of the game are :-
Correct Answer	Players , Decision maker
Your Answer	Players , Decision maker , Payoffs , Elements

True/False

Question	A game in which algebraic sum of gains of both the players after the play is not zero is called two person non zero sum game.
Correct Answer	True
Your Answer	True

Select The Blank

Question	A mixed strategy 2 x 2 game is solved by _____method.
Correct Answer	Algebraic
Your Answer	Linear programming

True/False

Question	Infeasibility is the condition in which the Linear Programming problem permits no feasible combination of the decision variables.
Correct Answer	True
Your Answer	True

Multiple Choice Single Answer

Question	Every combination of strategies of players determines an outcomes called :-
Correct Answer	Pay off
Your Answer	Pay off

True/False

Question	Value of game to player II is negative of minimax value.
Correct Answer	False
Your Answer	True

Multiple Choice Multiple Answer

Question	In a standard minimization problem, objective is to :-
----------	--

Correct Answer Minimize total time. , Minimize total cost.

Your Answer Minimize total time. , Minimize total cost. , Find alternative optimal solution. , Allocate each task to each facility.

Multiple Choice Multiple Answer

Question Objects too can form queues as :-

Correct Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground

Your Answer Semi-finished job await next operation , Broken down to be repaired , Blunt tools awaiting to be reground , Finance

Select The Blank

Question The _____ is a method for deciding how to meet some desired objective which may be profit maximisation or cost minimization, subject to constraints on the amounts of commodities required or resources available.

Correct Answer Linear programming

Your Answer Linear programming

Multiple Choice Multiple Answer

Question Feasible solution formula contains :-

Correct Answer m, n, 1 , m, n, 3 , n, 1, x

Your Answer m, n, 1 , m, n, 3 , n, 1, x , m, 1, p

Select The Blank

Question Team approach needs for optimal solution of _____ Decisions.

Correct Answer Adaptive

Your Answer Adaptive

Multiple Choice Single Answer

Question Transportation Tableau is :-

Correct Answer Tabular arrangement of data on demand, capacity & per unit shipping costs bet. supply point to destination

Your Answer Tabular arrangement of data on demand, capacity & per unit shipping costs bet. supply point to destination

Multiple Choice Multiple Answer

Question Which of the following elements are used to construct the pay off matrix?

Correct Answer Pay off , strategies , Probabilities

Your Answer Pay off , strategies , Decision tree , Probabilities

Multiple Choice Multiple Answer

Question	Resource Management involves
Correct Answer	Man , Machines , Materials
Your Answer	Man , Machines , Materials , Work Orders

Multiple Choice Single Answer

Question	Last Step of Graphical Method of LP is :-
Correct Answer	Calculate the total profit / loss
Your Answer	Calculate the total profit / loss

True/False

Question	Effective improvement over the initial feasible solution is included in MODI.
Correct Answer	True
Your Answer	True

True/False

Question	Risk represent the probability estimate of nonoccurrence of each outcome.
Correct Answer	False
Your Answer	False

Select The Blank

Question	A game in which more than 2 strategies are available to both players is called _____ game.
Correct Answer	m x n
Your Answer	m x 2

True/False

Question	Surplus variable is a variable used to convert a Less than or equal to constraint into equality by subtracting it from left hand side of the constraint.
Correct Answer	False
Your Answer	True

Multiple Choice Single Answer

Question	Extra row or column in tableau, with zero cost in each of its cells, used to balance an unbalanced problem is :-
Correct Answer	Dummy source or Destination
Your Answer	Dummy source or Destination

Multiple Choice Multiple Answer

Question	Games theory can solve :-
Correct Answer	Two person's game , Two persons zero sum game , Two persons 3 x 3 game
Your Answer	Two person's game , N Person's game , Two persons zero sum game , Two persons 3 x 3 game

True/False

Question	Resulting payoff of optional strategies is called outcome.
Correct Answer	False
Your Answer	True

Select The Blank

Question	A row with higher elements is called _____ row.
Correct Answer	Dominating
Your Answer	Major

Select The Blank

Question	Constraint not affecting the feasible solution is _____.
Correct Answer	Redundant Constraint
Your Answer	Redundant Constraint

True/False

Question	Value of the subgame related to highest point in the feasible region is solution for $2 \times n$ game.
Correct Answer	True
Your Answer	True

Multiple Choice Multiple Answer

Question	Special cases on simplex method are :-
Correct Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution
Your Answer	Multiple Optimal Solution , Unbounded Solution , Infeasible Solution , Payoffs

Select The Blank

Question	The _____ represents consequences of the interactions of the decision alternatives and the chance events.
Correct Answer	Outcomes
Your Answer	Outcomes

Select The Blank

Question	Number of customers in the queue plus those being serviced is _____.
Correct Answer	System Length
Your Answer	System Length

Multiple Choice Single Answer

Question	Sequence of steps performed in moving from one basic feasible solution to another basic feasible solution is :-
Correct Answer	Iteration
Your Answer	Iteration

Multiple Choice Multiple Answer

Question	Terms related to LCM are :-
Correct Answer	Initial feasible solution , Lowest Cost Cells , Next Lowest & so on
Your Answer	Initial feasible solution , Lowest Cost Cells , Next Lowest & so on , Finance Distribution

Multiple Choice Multiple Answer

Question	Value of game equals :-
Correct Answer	Saddle points , Weighted average of possible outcomes
Your Answer	Saddle points , Weighted average of possible outcomes , Zero , Value of any sum game

Multiple Choice Single Answer

Question	Expected gain to a player if he and his opponent use their best strategies is known as :-
Correct Answer	Value of game
Your Answer	Optimal strategy

Multiple Choice Multiple Answer

Question	Procedural steps in LCM are :-
Correct Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column
Your Answer	Scrutinize transport costs , Allocation as per supply & demand , Delete the row or column , Prepare a Methodological report

Multiple Choice Single Answer

Question	A mixed strategy is decision of player to select :-
Correct Answer	Different strategies
Your Answer	Different strategies

Select The Blank

Question	Comparable Past Event & Forecasting Future Events Study is called _____
Correct Answer	Probability Theory
Your Answer	Probability Theory

Multiple Choice Single Answer

Question	Vogel's Approximation Method (VAM) is :-
Correct Answer	A systematic procedure to obtain an initial feasible solution based on avoidance of high penalty & cost cell
Your Answer	A systematic procedure to obtain an initial feasible solution based on avoidance of high penalty & cost cell

Multiple Choice Single Answer

Question	There are more than one optimal solutions to an assignment problem when :-
Correct Answer	Number of independent zeros are more than required ones.
Your Answer	Number of minimum lines covering all zeros are more than number of rows/columns

Multiple Choice Single Answer

Question	In an unbalanced assignment problem :-
Correct Answer	One or more facilities remain idle.
Your Answer	One or more facilities remain idle.

Multiple Choice Single Answer

Question	The column with the largest negative index number is :-
Correct Answer	Key Column
Your Answer	Key Column

Multiple Choice Single Answer

Question	Set of basic variables which are not restricted to equal zero in the current basic solution & listed in the solution column is :-
Correct Answer	Basis
Your Answer	Basis

Select The Blank

Question	The _____ are those in which the outcome of the first decision affects the desirability of the choices at the next decision.
Correct Answer	Multi stage decisions
Your Answer	Mechanistic decisions

Multiple Choice Multiple Answer

Question	Which of the following can be considered as a general rules for data collection in the decision making process?
Correct Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded
Your Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded

Multiple Choice Multiple Answer

Question	To solve an unbalanced assignment problem :-
Correct Answer	Dummy row(s) with zero costs is / are added. , Dummy column(s) with zero costs is / are added.
Your Answer	Dummy row(s) with zero costs is / are added. , Dummy column(s) with zero costs is / are added.

Multiple Choice Multiple Answer

Question	Terminologies of simplex method are :-
Correct Answer	Key Row , Key Column , Key Element
Your Answer	Key Row , Key Column , Key Element

Select The Blank

Question	Minimax value sets _____ limit on game.
Correct Answer	Upper
Your Answer	Zero

Select The Blank

Question	_____ is the last step of Graphical Method of LP.
Correct Answer	Calculate the total profit / loss
Your Answer	Calculate the total profit / loss

Select The Blank

Question	Supply points does not equal demand is the case of _____
----------	--

Correct Answer	Un-balanced Transportation Problem
----------------	------------------------------------

Your Answer	Transportation Problem
-------------	------------------------

Select The Blank

Question	LP decide on product quantities to maximize profit is _____.
----------	--

Correct Answer	Product Mix Problems
----------------	----------------------

Your Answer	Product Mix Problems
-------------	----------------------

True/False

Question	Stepping stone method is to evaluate unoccupied cells to achieve an optimal solution.
----------	---

Correct Answer	True
----------------	------

Your Answer	True
-------------	------

Select The Blank

Question	Transportation Tableau gives _____.
----------	-------------------------------------

Correct Answer	Data on shipping costs
----------------	------------------------

Your Answer	Data on shipping costs
-------------	------------------------

Match The Following

Question	Correct Answer	Your Answer
Optimal Solution	Optimizing Objective Function	Optimizing Objective Function
Decision Variable	Unknown to be Determined	Unknown to be Determined
Constraints	Mathematical Equation of Limitation	Mathematical Equation of Limitation
Objective Function	Mathematical Equation of Major Goals	Mathematical Equation of Major Goals

Multiple Choice Single Answer

Question	Number of Customers in the Queue plus those being serviced is :-
----------	--

Correct Answer	System Length
----------------	---------------

Your Answer	System Length
-------------	---------------

Match The Following

Question	Correct Answer	Your Answer
Feasible Region	Defined by Constraints	Defined by Constraints
Constraint	Upper or Lower Limit	Feasible Solution
Graph	Straight Line	Upper or Lower Limit

Half Space	Same Side of Line	Same Side of Line
------------	-------------------	-------------------

Multiple Choice Single Answer

Question	What is MODI Method?
Correct Answer	A systematic procedure for evaluating unoccupied (water) cells to achieve an optimal solution
Your Answer	A systematic procedure for evaluating unoccupied (water) cells to achieve an optimal solution

Multiple Choice Multiple Answer

Question	Elements of Queuing System are :-
Correct Answer	Single Server , Multiple Servers (Series) , Multiple Servers (Parallel)
Your Answer	Single Server , Multiple Servers (Series) , Multiple Servers (Parallel)

Multiple Choice Multiple Answer

Question	Which are applications of quantitative techniques in financial management?
Correct Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans
Your Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans

Multiple Choice Multiple Answer

Question	Which are the typical areas of application of forecasting?
Correct Answer	Materials control , Loading and scheduling , Budgeting
Your Answer	Materials control , Loading and scheduling , Budgeting

Multiple Choice Multiple Answer

Question	Transportation Tableau is a Data on :-
Correct Answer	Demand , Capacity , Unit Shipping Cost
Your Answer	Unit Shipping Cost , Unit Manpower Cost

Select The Blank

Question	Representation of Mean Time between consecutive arrivals is done by _____.
Correct Answer	Inverse of Lambda
Your Answer	Inverse of Alpha

Multiple Choice Single Answer

Question	Linear Programming select the shortest route for a salesman starting from a given city, visiting each city & then return back is called as :-
Correct Answer	Traveling Salesman Problems
Your Answer	Traveling Salesman Problems

Select The Blank

Question	Dummy source is also termed as _____.
Correct Answer	Destination
Your Answer	Destination

True/False

Question	Quantitative techniques are usually associated with high costs.
Correct Answer	True
Your Answer	True

Select The Blank

Question	The _____ is a method for deciding how to meet some desired objective which may be profit maximisation or cost minimization, subject to constraints on the amounts of commodities required or resources available.
Correct Answer	Linear programming
Your Answer	Linear programming

Multiple Choice Single Answer

Question	Linear Programming decide least-cost-route of units from different plants to different warehouses is called as :-
Correct Answer	Transportation Problems
Your Answer	Transportation Problems

Multiple Choice Multiple Answer

Question	Types of the Service Facilities are :-
Correct Answer	Single queue: Single server , Single queue: Multiple server , Single queue: Multiple server (Parallel)
Your Answer	Single queue: Single server , Single queue: Multiple server , Single queue: Multiple server (Parallel)

True/False

Question	In an unbalanced assignment problem certain assignment can not be made because of restriction to allocation.
Correct Answer	False
Your Answer	False

Multiple Choice Single Answer

Question	A mixed strategy is decision of player to select :-
Correct Answer	Different strategies
Your Answer	Maximum gain

Multiple Choice Multiple Answer

Question	Resource Management involves :-
Correct Answer	Man , Machines , Materials

Your Answer	Man , Machines , Materials
-------------	----------------------------

Select The Blank

Question	Transportation problem in which total capacity at supply points equals total demand at the destinations is _____
----------	--

Correct Answer	Un-balanced Transportation Problem
----------------	------------------------------------

Your Answer	Un-balanced Transportation Problem
-------------	------------------------------------

True/False

Question	The decision nodes are depicted by circles.
----------	---

Correct Answer	False
----------------	-------

Your Answer	False
-------------	-------

Multiple Choice Single Answer

Question	A game without a saddle point is :-
----------	-------------------------------------

Correct Answer	Mixed strategy game
----------------	---------------------

Your Answer	Pure strategy game
-------------	--------------------

Multiple Choice Single Answer

Question	Which technique replaces the age old intuitive and subjective approach of decision making by an analytical and an objective approach?
----------	---

Correct Answer	Quantitative technique
----------------	------------------------

Your Answer	Quantitative technique
-------------	------------------------

True/False

Question	Though graphical method can deal with any number of a constraints but since each constraint is shown as a line on a graph, a large number of lines make the graph difficult to read.
----------	--

Correct Answer	True
----------------	------

Your Answer	False
-------------	-------

Multiple Choice Multiple Answer

Question	Three commonly used methods to establish initial feasible solution are :-
----------	---

Correct Answer	Northwest Corner Method , Least Cost Method , Vogel's Approximation Method
----------------	--

Your Answer	Northwest Corner Method , Vogel's Approximation Method , Least Corner Method
-------------	--

Multiple Choice Single Answer

Question	Redundant Constraint is :-
----------	----------------------------

Correct Answer	Which does not define the boundaries of the feasible solution
----------------	---

Your Answer	Which does not define the boundaries of the feasible solution
-------------	---

True/False

Question	A two person game offering 2 strategies to each player is called 2x2 game.
----------	--

Correct Answer True

Your Answer False

True/False

Question Static decisions are essentially not a one time decisions.

Correct Answer False

Your Answer True

Multiple Choice Single Answer

Question Games theory is applied when :-

Correct Answer Competing strategies are to be decided

Your Answer Jobs relocated to machine

Multiple Choice Single Answer

Question In an assignment matrix solution having zero total cost is :-

Correct Answer Optimal solution

Your Answer Feasible solution

Select The Blank

Question A column with lower elements is called _____column.

Correct Answer Dominating

Your Answer Dominating

Multiple Choice Single Answer

Question Which of the following is not a statistical technique?

Correct Answer Critical path analysis

Your Answer Critical path analysis

Multiple Choice Multiple Answer

Question What is the application of quantitative techniques in maintenance management?

Correct Answer To decide optimum stocking policies of spares , Predict useful life of parts , To decide optimum replacement policy of parts

Your Answer To decide optimum stocking policies of spares , Predict useful life of parts , To decide optimum replacement policy of parts

Multiple Choice Multiple Answer

Question Which are the typical areas of application of probability theory?

Correct Answer Market research , Inventory control , Price movements

Your Answer Market research , Budgeting , Price movements

True/False

Question In pure strategy game players stray with any one strategy throughout the game.

Correct Answer False

Your Answer True

Select The Blank

Question LP is most popular techniques of _____.

Correct Answer Operation Research

Your Answer Operation Research

True/False

Question Quantitative techniques consider tangible as well as intangible factors.

Correct Answer False

Your Answer False

Multiple Choice Single Answer

Question	Set of basic variables which are not restricted to equal zero in the current basic solution & listed in the solution column is :-
Correct Answer	Basis
Your Answer	Basis

Select The Blank

Question	The _____ are those in which the outcome of the first decision affects the desirability of the choices at the next decision.
Correct Answer	Multi stage decisions
Your Answer	Mechanistic decisions

Multiple Choice Multiple Answer

Question	Which of the following can be considered as a general rules for data collection in the decision making process?
Correct Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded
Your Answer	The information should be subjected to checks and cross checks , The information must be collected from the most reliable source , All relevant facts, regardless of how disorganised and unrelated they seem at the time of data gathering, should be recorded

Multiple Choice Multiple Answer

Question	To solve an unbalanced assignment problem :-
Correct Answer	Dummy row(s) with zero costs is / are added. , Dummy column(s) with zero costs is / are added.
Your Answer	Dummy row(s) with zero costs is / are added. , Dummy column(s) with zero costs is / are added.

Multiple Choice Multiple Answer

Question	Terminologies of simplex method are :-
Correct Answer	Key Row , Key Column , Key Element
Your Answer	Key Row , Key Column , Key Element

Select The Blank

Question	Minimax value sets _____ limit on game.
Correct Answer	Upper
Your Answer	Zero

Select The Blank

Question	_____ is the last step of Graphical Method of LP.
Correct Answer	Calculate the total profit / loss
Your Answer	Calculate the total profit / loss

Select The Blank

Question	Supply points does not equal demand is the case of _____
----------	--

Correct Answer	Un-balanced Transportation Problem
Your Answer	Transportation Problem

Select The Blank

Question	LP decide on product quantities to maximize profit is _____.
Correct Answer	Product Mix Problems
Your Answer	Product Mix Problems

True/False

Question	Stepping stone method is to evaluate unoccupied cells to achieve an optimal solution.
Correct Answer	True
Your Answer	True

Select The Blank

Question	Transportation Tableau gives _____.
Correct Answer	Data on shipping costs
Your Answer	Data on shipping costs

Match The Following

Question	Correct Answer	Your Answer
Optimal Solution	Optimizing Objective Function	Optimizing Objective Function
Decision Variable	Unknown to be Determined	Unknown to be Determined
Constraints	Mathematical Equation of Limitation	Mathematical Equation of Limitation
Objective Function	Mathematical Equation of Major Goals	Mathematical Equation of Major Goals

Multiple Choice Single Answer

Question	Number of Customers in the Queue plus those being serviced is :-
Correct Answer	System Length
Your Answer	System Length

Match The Following

Question	Correct Answer	Your Answer
Feasible Region	Defined by Constraints	Defined by Constraints
Constraint	Upper or Lower Limit	Feasible Solution
Graph	Straight Line	Upper or Lower Limit

Half Space	Same Side of Line	Same Side of Line
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Multiple Choice Single Answer

Question	What is MODI Method?
Correct Answer	A systematic procedure for evaluating unoccupied (water) cells to achieve an optimal solution
Your Answer	A systematic procedure for evaluating unoccupied (water) cells to achieve an optimal solution

Multiple Choice Multiple Answer

Question	Elements of Queuing System are :-
Correct Answer	Single Server , Multiple Servers (Series) , Multiple Servers (Parallel)
Your Answer	Single Server , Multiple Servers (Series) , Multiple Servers (Parallel)

Multiple Choice Multiple Answer

Question	Which are applications of quantitative techniques in financial management?
Correct Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans
Your Answer	Interpretation of financial statements , To determine optimum equipment replacement policies , To develop capital investment plans

Multiple Choice Multiple Answer

Question	Which are the typical areas of application of forecasting?
Correct Answer	Materials control , Loading and scheduling , Budgeting
Your Answer	Materials control , Loading and scheduling , Budgeting

Multiple Choice Multiple Answer

Question	Transportation Tableau is a Data on :-
Correct Answer	Demand , Capacity , Unit Shipping Cost
Your Answer	Unit Shipping Cost , Unit Manpower Cost

Select The Blank

Question	Representation of Mean Time between consecutive arrivals is done by _____.
Correct Answer	Inverse of Lambda
Your Answer	Inverse of Alpha

Multiple Choice Single Answer

Question	Linear Programming select the shortest route for a salesman starting from a given city, visiting each city & then return back is called as :-
Correct Answer	Traveling Salesman Problems
Your Answer	Traveling Salesman Problems

Select The Blank

Question	Dummy source is also termed as _____.
Correct Answer	Destination
Your Answer	Destination

True/False

Question	Quantitative techniques are usually associated with high costs.
Correct Answer	True
Your Answer	True

Select The Blank

Question	The _____ is a method for deciding how to meet some desired objective which may be profit maximisation or cost minimization, subject to constraints on the amounts of commodities required or resources available.
Correct Answer	Linear programming
Your Answer	Linear programming

Multiple Choice Single Answer

Question	Linear Programming decide least-cost-route of units from different plants to different warehouses is called as :-
Correct Answer	Transportation Problems
Your Answer	Transportation Problems

Multiple Choice Multiple Answer

Question	Types of the Service Facilities are :-
Correct Answer	Single queue: Single server , Single queue: Multiple server , Single queue: Multiple server (Parallel)
Your Answer	Single queue: Single server , Single queue: Multiple server , Single queue: Multiple server (Parallel)

True/False

Question	In an unbalanced assignment problem certain assignment can not be made because of restriction to allocation.
Correct Answer	False
Your Answer	False

Multiple Choice Single Answer

Question	A mixed strategy is decision of player to select :-
Correct Answer	Different strategies
Your Answer	Maximum gain

Multiple Choice Multiple Answer

Question	Resource Management involves :-
Correct Answer	Man , Machines , Materials

Your Answer	Man , Machines , Materials
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Select The Blank

Question	Transportation problem in which total capacity at supply points equals total demand at the destinations is _____
----------	--

Correct Answer	Un-balanced Transportation Problem
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Your Answer	Un-balanced Transportation Problem
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True/False

Question	The decision nodes are depicted by circles.
----------	---

Correct Answer	False
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Your Answer	False
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Multiple Choice Single Answer

Question	A game without a saddle point is :-
----------	-------------------------------------

Correct Answer	Mixed strategy game
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Your Answer	Pure strategy game
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Multiple Choice Single Answer

Question	Which technique replaces the age old intuitive and subjective approach of decision making by an analytical and an objective approach?
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Correct Answer	Quantitative technique
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Your Answer	Quantitative technique
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True/False

Question	Though graphical method can deal with any number of a constraints but since each constraint is shown as a line on a graph, a large number of lines make the graph difficult to read.
----------	--

Correct Answer	True
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Your Answer	False
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Multiple Choice Multiple Answer

Question	Three commonly used methods to establish initial feasible solution are :-
----------	---

Correct Answer	Northwest Corner Method , Least Cost Method , Vogel's Approximation Method
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Your Answer	Northwest Corner Method , Vogel's Approximation Method , Least Corner Method
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Multiple Choice Single Answer

Question	Redundant Constraint is :-
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Correct Answer	Which does not define the boundaries of the feasible solution
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Your Answer	Which does not define the boundaries of the feasible solution
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True/False

Question	A two person game offering 2 strategies to each player is called 2x2 game.
----------	--

Correct Answer	True
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Your Answer	False
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True/False

Question	Static decisions are essentially not a one time decisions.
----------	--

Correct Answer	False
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Your Answer	True
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Multiple Choice Single Answer

Question	Games theory is applied when :-
----------	---------------------------------

Correct Answer	Competing strategies are to be decided
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Your Answer	Jobs relocated to machine
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Multiple Choice Single Answer

Question	In an assignment matrix solution having zero total cost is :-
----------	---

Correct Answer	Optimal solution
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Your Answer	Feasible solution
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Select The Blank

Question	A column with lower elements is called _____column.
----------	---

Correct Answer	Dominating
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Your Answer	Dominating
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Multiple Choice Single Answer

Question	Which of the following is not a statistical technique?
----------	--

Correct Answer	Critical path analysis
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Your Answer	Critical path analysis
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Multiple Choice Multiple Answer

Question	What is the application of quantitative techniques in maintenance management?
----------	---

Correct Answer	To decide optimum stocking policies of spares , Predict useful life of parts , To decide optimum replacement policy of parts
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Your Answer	To decide optimum stocking policies of spares , Predict useful life of parts , To decide optimum replacement policy of parts
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Multiple Choice Multiple Answer

Question	Which are the typical areas of application of probability theory?
----------	---

Correct Answer	Market research , Inventory control , Price movements
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Your Answer	Market research , Budgeting , Price movements
-------------	---

True/False

Question In pure strategy game players stray with any one strategy throughout the game.

Correct Answer False

Your Answer True

Select The Blank

Question LP is most popular techniques of _____.

Correct Answer Operation Research

Your Answer Operation Research

True/False

Question Quantitative techniques consider tangible as well as intangible factors.

Correct Answer False

Your Answer False