<u>Dashboard</u> / <u>Courses</u> / <u>SCHOOL OF MECHANICAL</u> / <u>EVEN SEMESTER</u> / <u>RMT - R</u> / <u>General</u> / <u>RMT - Quiz I</u>

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Started on Friday, 19 March 2021, 5:00 PM

State Finished

Completed on Friday, 19 March 2021, 5:15 PM

Time taken 14 mins 51 secs

Grade 28.00 out of 30.00 (**93**%)

Question 1

Incorrect

Mark 0.00 out of 1.00

Who coined the term operation research?

a. F.N.Trefethen

b. J.F.Mc Closkey

C. P.F.Adams

od. J.F.Mc Closkey & F.N Trefethen

Your answer is incorrect.

The correct answer is:

J.F.Mc Closkey & F.N Trefethen

Question 2	
Correct	
Mark 1.00 out of 1.00	
The term operations research was coined in the year	
○ a. 1960	
○ b. 1950	
© ^{C.} 1940	•
Od. ₁₉₇₈	
Your answer is correct.	
The correct answer is:	
1940	
Question 3 Correct	
Mark 1.00 out of 1.00	
Mark 1.00 Out of 1.00	
Operation Research approach is	
o a. Intuitive	
○ b. Scientific	
⊚ c. Multi –Disciplinary	•
○ d. Collect Essential Data	
U. Conect Essential Data	
Your answer is correct.	
The correct answer is:	
Multi –Disciplinary	

Question 4	
Correct	
Mark 1.00 out of 1.00	
is a mathematical technique used to solve the problem of allocating limited resource among the competing activities.	
a. Assignment Problem	
○ b. Replacement Model	
c. Linear Programming Problem	~
O d. Non - Linear Programming Problem	
Your answer is correct.	
The correct answer is: Linear Programming Problem	
Question 5	
Correct	
Mark 1.00 out of 1.00	
In an linear programming problem to be maximized or minimized are called	
a. Feasible solution	
○ b. Constraints	
○ c. Basic Solution	
d. Objective Function	~
Your answer is correct.	
The correct answer is:	
Objective Function	

Question 6 Correct	
Mark 1.00 out of 1.00	
Key Element is also known as	
a. Pivot Element	~
○ b. Slack	
○ c. Artificial	
○ d. Surplus	
Your answer is correct.	
The correct answer is: Pivot Element	
Question 7	
Correct Mark 1.00 out of 1.00	
Wak 1.00 ddt 01 1.00	
The solution to a transportation problem with m-sources and n-destinations is feasible if the numbers of allocation are	
○ a. m-n	
○ b. m+n	
○ c. mn	
	~
Your answer is correct.	
The correct answer is: m+n-1	

Question 8 Correct	
Mark 1.00 out of 1.00	
The allocation cells in the transportation table will be called	cell
a. No allocation	
O b. Finite	
c. Occupied	•
O d. Unoccupied	
Your answer is correct.	
The correct answer is: Occupied	
Question 9	
Correct	
Mark 1.00 out of 1.00	
The assignment algorithm was developed bymethod	
a. Hungarian Method	
○ b. Modi	
c. Vogel`s Approximation	
d. North West Corner	
○ d. North West Corner	
d. North West CornerYour answer is correct.	

Question 10 Correct			
Mark 1.00 out of 1.00			
The coefficient of slack variables in t	ne objective function are	always assumed to be	
○ a. M			
○ bM			
o c. Zero			
O d. 1			
Your answer is correct.			
The correct answer is: Zero			
Question 11			
Correct			
Mark 1.00 out of 1.00			
Graphical Method is also known as -			
orapinoa. memea o ase miem as			
a. Search Approach Method			
○ b. Simplex Method			
c. Big M Method			
od. Dual Simplex Method			
Your answer is correct.			

Correct		
Mark 1.00 out of 1.00		
When the total demand is e	equal to supply then the transportation problem is said to be	
a. Minimization		
O b. Unbalanced		
c. Balanced		✓
O d. Maximization		
Your answer is correct.		
The correct answer is: Balance	nced	
Question 13		
Correct		
Mark 1.00 out of 1.00		
For finding optimum solution	ion in transportation problemmethod is used	
	ion in transportation problemmethod is used	✓
a. Big M Method	ion in transportation problemmethod is used	~
a. Big M Methodb. Modi	ion in transportation problemmethod is used	~
a. Big M Methodb. Modic. Simplex	ion in transportation problemmethod is used	•

Correct		
Mark 1.00 out of 1.00		
Linear programming problem is a techniqu	ue of finding the	
a. Infeasible Value		
O b. Initial Value		
c. Optimal Value		•
Od. Approximate Value		
Your answer is correct.		
The correct answer is: Optimal Value		
Question 15		
Correct		
Mark 1.00 out of 1.00		
method is an alternative method	d of solving a linear programming problem involving artificial variables.	
	to soming a mean programming prosicin meaning arangal randocti	
method is an aternative method		
a. Dual Simplex Method		
a. Dual Simplex Method		
a. Dual Simplex Methodb. Graphical Method		•
a. Dual Simplex Methodb. Graphical Methodc. Big M Method		•
a. Dual Simplex Methodb. Graphical Methodc. Big M Method		•

Question 16 Correct
Mark 1.00 out of 1.00
The region common to all the constraints equation in graphical method is called
a. Infeasible Solution
○ b. Unique Solution
○ c. Solution in Space
d. Feasible Solution
Your answer is correct.
The correct answer is: Feasible Solution
Question 17
Correct
Mark 1.00 out of 1.00
Operation research approach is typically based on the use of
○ a. Physical Model
○ b. Iconic Model
C. Mathematical Model
Od. Descriptive Model
Your answer is correct.
The correct answer is:
Mathematical Model

Question 18 Correct	
Mark 1.00 out of 1.00	
The coefficient of an artificial variable in the objective function of Big M method are always assumed to be	
■ aM	
○ b. 1	
○ c. Zero	
O d. _M	
- · · · M	
Your answer is correct.	
The correct answer is:	
-M	
a :: 10	
Question 19 Correct	
Mark 1.00 out of 1.00	
Graphical Method of linear programming is useful when the number of decision variable are	
○ a. 3	
○ c. 4	
O d. 1	
Your answer is correct.	
The correct answer is: 2	

Question 20	
Correct	
Mark 1.00 out of 1.00	
or are used to balance an assignment or transportation problem	
a. Supply, Demand	
b. Dummy row, Dummy column	✓
○ c. Job , Machine	
Od. Destination, Source	
Your answer is correct.	
The correct answer is: Dummy row, Dummy column	
Question 21	
Correct	
Mark 1.00 out of 1.00	
Hungarian Method is used to solve	
a. Transportation Problem	
○ b. LPP Problem	
b. LPP Problem	
c. Travelling & salesman Method	✓
	~
	•
c. Travelling & salesman Method	•

Question 22	
Correct	
Mark 1.00 out of 1.00	
In LPP Problem, Maximize the and minimize the	
a. Destination, Source	
b. Profit, Cost	✓
c. Supply, Demand	
○ d. Profit, Loss	
Your answer is correct.	
The correct answer is: Profit, Cost	
Question 23	
Correct	
Mark 1.00 out of 1.00	
Which is the most optimum method	
a. Least Cost Method	
○ b. North West Corner Method	
c. Vogel's Approximation Method	✓
○ d. Big M Method	
Your answer is correct.	

Question 24	
Correct	
Mark 1.00 out of 1.00	
Operation research is the applications ofmethods to arrive the optimal solutions to the problems	
a. Artistic	
O b. Economical	
c. Scientific	~
O d. Political	
Your answer is correct.	
The correct answer is: Scientific	
Question 25	
Correct	
Mark 1.00 out of 1.00	
Graphical method value for Z can be obtained from	
○ a. Cost	
b. Bounded Region	~
○ c. Optimal	
○ d. Unbounded Region	
Your answer is correct.	
The correct answer is: Bounded Region	



Question 26	Sathyabama Learning Management System	
Correct	~ Developed by <u>Cognibot</u>	
Mark 1.00 out of 1.00		
	■ 唇 e-Resources	
Objective function is expressed in terms of the	INITO	
. .	1141 0	
	<u>Facebook</u>	
a. Decision Variable	<u>Twitter</u>	~
O b. Numbers	<u>Instagram</u>	
o. Symbols	<u>YouTube</u>	
O d. Dummy Variable	Sathyabama Staff Forum	
Varia analysis are say	GET SOCIAL	
Your answer is correct.	f 🔽	
The correct answer is: Decision Variable		
Question 27		
Correct		
Mark 1.00 out of 1.00		
The incoming variable column in the simplex m	ethod is called as	
a. Incoming Column		
b. Pivot Column		•
c. Pivot Element		
○ d. Pivot Row		
Your answer is correct.		
The correct answer is: Pivot Column		

Correct	
Mark 1.00 out of 1.00	
In a transportation problem the method of penalties is called	
in a transportation problem the method of penalties is called	
a. Least Cost Method	
b. Vogel's Approximation Method	•
c. North West Corner	
○ d. Simplex Method	
Your answer is correct.	
The correct answer is: Vogel's Approximation Method	
Correct	
Correct	
Correct	
Correct Mark 1.00 out of 1.00	
Correct Mark 1.00 out of 1.00	
Correct Mark 1.00 out of 1.00 The transportation problem is basically a	
a. Iconic Model	
Correct Mark 1.00 out of 1.00 The transportation problem is basically a a. Iconic Model b. Minimization Problem	
Correct Mark 1.00 out of 1.00 The transportation problem is basically a a. Iconic Model b. Minimization Problem c. Maximization Problem	
Correct Mark 1.00 out of 1.00 The transportation problem is basically a a. Iconic Model b. Minimization Problem c. Maximization Problem	

ncorrect Mark 0.00 out of 1.00	
The objective function for a LPP model is $Z = 3x1 + 2x2 + 4x3$, if $x1 = 50$, $x2 = 70$, what is the value of the objective function?	
○ a. 290	
O b. 90	
◎ c. 0	×
O d. 120	
Your answer is incorrect.	
The correct answer is: 290	
■ Announcements	
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Question 30