� a-2, b-3, c-4, d-6

Question Number : 431 Question Id : 640653609548 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4.5

Question Label : Multiple Choice Question

Consider the following sorting algorithm which sorts any given unsorted array of numbers in ascending order. What would be its time complexity? (Assume appending and deleting an element from an array does not affect time complexity)

Step 1: Create an empty array.

Step 2: Find the element in the unsorted array with the minimum value.

Step 3: Append this element to the array created in step 1.

Step 4: Delete this element from the unsorted array.

Step 5: Repeat steps 1 to 4 until the unsorted array is empty.

Options :

6406532035989. ✱ $O(logN)$

6406532035990. ✱ $O(N)$

6406532035991. ✱ $O(NlogN)$

6406532035992. ✔ $O(N^2)$

BDM

Section Id :	64065341257
Section Number :	14
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	15

Number of Questions to be attempted :   15

Section Marks :   40

Display Number Panel :   Yes

Section Negative Marks :   0

Group All Questions :   No

Enable Mark as Answered Mark for Review and Clear Response :   Yes

Maximum Instruction Time :   0

Sub-Section Number :   1

Sub-Section Id :   64065387639

Question Shuffling Allowed :   No

Is Section Default? :   null

Question Number : 432 Question Id : 640653609551 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 0

Question Label : Multiple Choice Question

THIS IS QUESTION PAPER FOR THE SUBJECT "DIPLOMA LEVEL : BUSINESS DATA MANAGEMENT (COMPUTER BASED EXAM)"

ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THIS SUBJECT?
CROSS CHECK YOUR HALL TICKET TO CONFIRM THE SUBJECTS TO BE WRITTEN.

(IF IT IS NOT THE CORRECT SUBJECT, PLS CHECK THE SECTION AT THE TOP FOR THE SUBJECTS REGISTERED BY YOU)

Options :

6406532036001. ✔ YES

6406532036002. ✖ NO

Sub-Section Number :   2

Sub-Section Id :   64065387640

Question Number : 433 Question Id : 640653609552 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2

Question Label : Multiple Choice Question

What does the "range_lookup" parameter in the VLOOKUP function control?

Options :

6406532036003. � The range of data in which the Vertical look-up function should operate on.

6406532036004. � The search direction (up or down) for the lookup value.

6406532036005. � Whether the function should perform a case-sensitive lookup.

6406532036006. ✔ Whether the function should perform an approximate or exact match lookup.

Sub-Section Number :   3

Sub-Section Id :   64065387641

Question Shuffling Allowed :   Yes

Is Section Default? :   null

Question Number : 434 Question Id : 640653609553 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

With the following data, determine which SKU has the minimum Average Days of Inventory.

Stock Keeping Unit	Open Stock in Warehouse	Avg Daily Sales
A01	18.7	8.5
A02	31.2	6.3
A03	15.9	3.7
A04	12.4	2.9

Options :

6406532036007. ✔ A01

6406532036008. ✖ A02

6406532036009. ✖ A03

6406532036010. ✖ A04

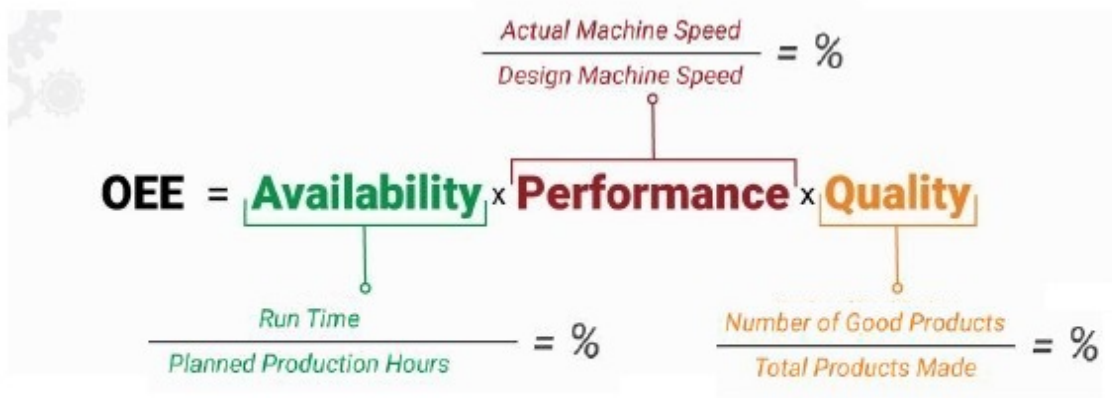|	
Sub-Section Number :	4
Sub-Section Id :	64065387642
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 435 Question Id : 640653609554 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4

Question Label : Short Answer Question

Calculate the Overall Equipment Effectiveness (OEE) of the Assembly Line Equipment for the month of July.

$$\frac{\text{Actual Machine Speed}}{\text{Design Machine Speed}} = \%$$

$$\text{OEE} = \text{Availability} \times \text{Performance} \times \text{Quality}$$

$$\frac{\text{Run Time}}{\text{Planned Production Hours}} = \% \qquad \frac{\text{Number of Good Products}}{\text{Total Products Made}} = \%$$

Parameters:

Planned Production Hours (PPH):	400
Lost Time (LOT):	30
Designed Assembly Speed from Equipment (DA) per Hour:	180
Actual Assembly Speed from Equipment (AA) per Hour:	160
Total Units Assembled (TU):	8000
Defective Units (DU):	320

Round the OEE to two decimal places

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

0.77 to 0.81

Sub-Section Number :	5
Sub-Section Id :	64065387643
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 436 Question Id : 640653609555 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2

Question Label : Short Answer Question

A company has 20 employees. In the last quarter, 5 employees left, and 3 new employees were hired. What is the employee quarterly attrition rate?

$$\frac{\text{(Number of employee departures)}}{\text{(Average number of employees)}} \times 100 = \text{Attrition rate (percentage)}$$

_____%

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

25.5 to 27

Sub-Section Number :	6
Sub-Section Id :	64065387644
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Id : 640653609556 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Question Numbers : (437 to 438)

Question Label : Comprehension

You oversee the inventory management of gear assemblies in a manufacturing facility. The particulars of the inventory are as follows:

Starting Inventory: 100 units

Daily Usage: 5 units

Lead Time: 10 days

Safety Stock: 20 units

Based on the above data, answer the given subquestions.

Sub questions

Question Number : 437 Question Id : 640653609557 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1.5

Question Label : Multiple Choice Question

Based on this information, at what inventory level should you trigger a re-order for gear assemblies?

Options :

6406532036013. ✔ Initiate a re-order when the inventory level drops to 70 units

6406532036014. ✖ Initiate a re-order when the inventory level drops to 50 units

6406532036015. ✖ Initiate a re-order when the inventory level drops to 30 units

6406532036016. ✖ Initiate a re-order when the inventory level drops to 15 units

Question Number : 438 Question Id : 640653609558 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1.5

Question Label : Multiple Choice Question

After how many days should you trigger a re-order

Options :

6406532036017. ✖ 17 Days

6406532036018. ✖ 14 Days

6406532036019. ✻ 10 Days

6406532036020. ✔ 6 Days

Sub-Section Number :   7

Sub-Section Id :   64065387645

Question Shuffling Allowed :   Yes

Is Section Default? :   null

Question Number : 439 Question Id : 640653609559 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2

Question Label : Multiple Choice Question

In business analysis, the Pareto Principle is commonly used to:

Options :

6406532036021. ✻ Distribute resources evenly across all activities.

6406532036022. ✔ Focus efforts on a few vital factors that have the most significant impact.

6406532036023. ✻ Ignore data that doesn't follow the 80/20 distribution.

6406532036024. ✻ Achieve a perfect balance between inputs and outputs.

Question Number : 440 Question Id : 640653609560 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2

Question Label : Multiple Choice Question

Which of the following scenarios aligns with the principles of Nudge economics?

Options :

6406532036025. ✻ A government bans the sale of sugary beverages.

6406532036026. ✔ A school provides nutritional information to students without altering the cafeteria options.

6406532036027. ✖ A company uses aggressive advertising to persuade customers to buy its products.

6406532036028. ✖ A city imposes fines for not recycling.

Sub-Section Number : 8

Sub-Section Id : 64065387646

Question Shuffling Allowed : No

Is Section Default? : null

Question Id : 640653609561 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Question Numbers : (441 to 443)

Question Label : Comprehension

Consider the following data set and answer the given suquestions.

Applicant	Income ($1000s)	Credit Score	Loan Amount ($1000s)
Applicant A	50	720	150
Applicant B	30	680	100
Applicant C	40	780	120
Applicant D	25	620	80
Applicant E	35	750	130

Sub questions

Question Number : 441 Question Id : 640653609562 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Multiple Choice Question

Which applicant will face the most difficulty in repaying the loan?

Options :

6406532036029. � Applicant A

6406532036030. � Applicant B

6406532036031. � Applicant C

6406532036032. � Applicant D

6406532036033. ✅ Applicant E

Question Number : 442 Question Id : 640653609563 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Multiple Choice Question

If any credit score of 700 and above is considered equally acceptable, then which applicant is the most risky for the lender?

Options :

6406532036034. ✅ Applicant A

6406532036035. � Applicant B

6406532036036. � Applicant C

6406532036037. � Applicant D

6406532036038. � Applicant E

Question Number : 443 Question Id : 640653609564 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Multiple Choice Question

For a loan amount of $120, which applicant has the lowest risk level?

Options :

6406532036039. � Applicant A

6406532036040. � Applicant B

6406532036041. ✔ Applicant C

6406532036042. � Applicant D

6406532036043. � Applicant E

Sub-Section Number :	9
Sub-Section Id :	64065387647
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 444 Question Id : 640653609565 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

A company is analyzing the effectiveness of different recruitment channels for hiring new employees based on the number of applications received, the number of candidates shortlisted, and the ease of applying scores (on a scale of 1 (min) to 5 (max)) for each recruitment channel. Please follow the instructions below to answer the question.

Make your selection based on your analysis of the effectiveness scores of the recruitment channels.

Recruitment Channel	Applications	Shortlisted	Ease of Applying (Scale: 1-5)
Linkedin	120	30	4
Referrals	80	40	5
External Agency	150	20	3
Internal Sourcing	100	25	4

Instructions:

- Normalize Ease of Applying Scores
- Calculate Effectiveness Score: Calculate the effectiveness score for each recruitment channel by multiplying the ratio of shortlisted candidates to applications by the normalized ease of applying score.
- Rank the Channels: Rank the recruitment channels based on their calculated effectiveness scores. The higher the effectiveness score, the more effective the channel.

Based on the provided data and your calculated effectiveness scores, which recruitment channel appears to be the most effective in terms of the ratio of shortlisted candidates to applications and the ease of applying?

Options :

6406532036044. ✱ Linkedin

6406532036045. ✔ Referrals

6406532036046. ✱ External Agency

6406532036047. ✱ Internal Sourcing

Question Number : 445 Question Id : 640653609567 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

Rank the candidates based on the provided factors and choose the correct ranking from the options below:

Candidate	Years of Experience	Technical Skills	Number of Projects	Tenure in Current Role
Rajesh	6.5	4	3	5
Priya	7	3	2	4
Aman	4	2	1	2
Sanya	5.5	3	2	3

Consider the following dataset:

Options :

6406532036053. ✔ Rajesh > Priya > Sanya > Aman

6406532036054. ✖ Priya > Aman > Sanya > Rajesh

6406532036055. ✖ Sanya > Aman > Priya > Rajesh

6406532036056. ✖ Aman > Sanya > Priya > Rajesh

Sub-Section Number :   10

Sub-Section Id :   64065387648

Question Shuffling Allowed :   Yes

Is Section Default? :   null

Question Number : 446 Question Id : 640653609566 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3 Max. Selectable Options : 0

Question Label : Multiple Select Question

PayBuddy conducted an extensive A/B test to assess the impact of a new Cashback Rewards program on customer spending behavior. The control and test groups were carefully selected to ensure equal representation. The table below provides a detailed breakdown of transaction data before and after the introduction of the Cashback Rewards program. Based on the given data, which of the following statements are true? [Select all that apply]

Group	Average number of transactions per customer (Before Program)	Average transaction amount ($) (Before Program)	Average number of transactions per customer (After Program)	Average transaction amount ($) (After Program)
Control	10.5	85.2	11.2	87.6
Test	11.8	91.7	13.4	95.2

Options :

6406532036048. ✔ The new Cashback Rewards program significantly increased the average number of transactions for both control and test groups.

6406532036049. ✖ Both the control and test groups experienced a decrease in the average transaction amount after the introduction of the Cashback Rewards program.

6406532036050. ✔ The Cashback Rewards program had a more pronounced impact on increasing the average transaction amount in the test group compared to the control group.

6406532036051. ✖ The average transaction amount decreased in the control group but increased in the test group after the introduction of the Cashback Rewards program.

6406532036052. ✖ The increase in the average transaction amount was higher in the control group compared to the test group due to the Cashback Rewards program.

Sub-Section Number :	11
Sub-Section Id :	64065387649
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 447 Question Id : 640653609568 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Short Answer Question

A cut in price from $1.50 to $1.20 sees demand for a product rise by 10%. What would the price elasticity of demand be for this product?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Set

Text Areas : PlainText

Possible Answers :

-0.5

0.5

Question Number : 448 Question Id : 640653609570 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Short Answer Question

The price is changed from Rs 200 to Rs 150. The absolute value of price elasticity of demand is 1.2. What is the ratio of the new and old quantities sold?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

1.25 to 1.35

Sub-Section Number :	12
Sub-Section Id :	64065387650
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 449 Question Id : 640653609569 Question Type : MCQ Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
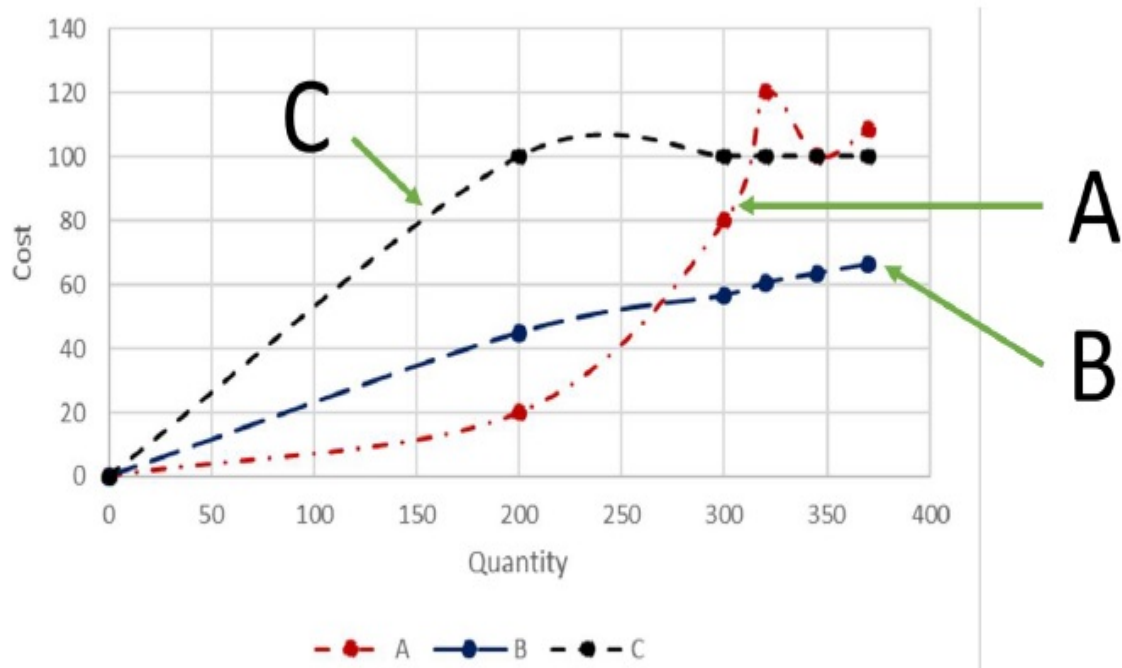
Time : 0

Correct Marks : 4

Question Label : Multiple Choice Question

Using the data in table and figure below, match the curve in column-A to its representative cost in

column-B (assume all units produced are sold).

Fixed Cost (Rs.)	Variable Cost (Rs./ unit)	Number of Units Produced (units)	Selling price (Rs./ unit)
5000	0	0	100
5000	20	200	100
5000	40	300	100
5000	45	320	100
5000	49	345	100
5000	53	370	100

	Column-A		Column-B
I.	Curve-A	a)	Marginal cost
II.	Curve-B	b)	Marginal revenue
III.	Curve-C	c)	Avg. total cost
IV.	None of the above		

Options :

6406532036058. ✷ I-(a), II-(c), III-(b)

6406532036059. ✷ II-(a), I-(c), III-(b)

6406532036060. ✷ III-(a), II-(c), I-(b)

6406532036061. ✔ IV-(a), II-(c), III-(b)

System Commands

Section Id :	64065341258
Section Number :	15
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	15
Number of Questions to be attempted :	15
Section Marks :	100
Display Number Panel :	Yes
Section Negative Marks :	0
Group All Questions :	No
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	64065387651
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 450 Question Id : 640653609571 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 0

Question Label : Multiple Choice Question

THIS IS QUESTION PAPER FOR THE SUBJECT "DIPLOMA LEVEL : SYSTEM COMMANDS (COMPUTER BASED EXAM)"

ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THIS SUBJECT?

CROSS CHECK YOUR HALL TICKET TO CONFIRM THE SUBJECTS TO BE WRITTEN.

(IF IT IS NOT THE CORRECT SUBJECT, PLS CHECK THE SECTION AT THE TOP FOR THE SUBJECTS