

Professional Online Academy Vu Topper RM



MTH-601 Operations Research
Update MCQ'S Mid Term
By Vu Topper RM



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Question No:1

(Marks:1)

Vu-Topper RM

Objective of inventory control is to balance between the advantage of having inventories and the ----- of carrying them to arrive at an optimal level of inventories to minimize the total inventory cost.

- A. cost**
- B. demand
- C. profit
- D. transportation

Question No:2

(Marks:1)

Vu-Topper RM

The parameters like demand and ordering quantity cost are quite ----- in the Probabilistic inventory models.

- A. uncertain**
- B. certain

Question No:3

(Marks:1)

Vu-Topper RM

The purpose of maintaining the inventory is to balance the inter-related - -----.

- A. costs**
- B. times
- C. items
- D. demands

Question No:4

(Marks:1)

Vu-Topper RM

While solving a problem by any of Linear Programming method, an objective function is to be -----.

- A. standardized
- B. maximized
- C. minimized
- D. optimized**

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Question No:5

(Marks:1)

Vu-Topper RM

The Economic Order Quantity in case of Manufacturing Model without Shortage can be transformed into Purchasing Model without Shortage by which of the following substitution?

- A. When Replacement rate 'R' approaches infinity**
- B. When Demand rate approaches infinity
- C. When Replacement rate 'R' approaches zero
- D. When Demand rate approaches zero

Question No:6

(Marks:1)

Vu-Topper RM

If the purchases are made in large quantities then the Economic Order Quantity model may fail because -----.

- A. the Holding Cost will decrease
- B. the Setup Cost will increase
- C. the Setup Cost will decrease
- D. the Holding Cost will increase**

Question No:7

(Marks:1)

Vu-Topper RM

For ABC analysis, in the Random Sample of some items, the ranks to the items are assigned with respect to their -----.

- A. largest annual unit cost
- B. lowest annual usage value
- C. largest annual usage value**
- D. lowest annual unit cost

Question No:8

(Marks:1)

Vu-Topper RM

Which of the following is NOT an assumption of the basic Wilson's EOQ model?

- A. Replenishment occurs instantly.
- B. Ordering costs are fixed per order.
- C. There is a cost associated with shortages.**
- D. Demand is constant and known.

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Question No:9

(Marks:1)

Vu-Topper RM

The task which is executed by the usage of resources and time is called -
-----.

- A. node
- B. project
- C. activity**
- D. event

Question No:10

(Marks:1)

Vu-Topper RM

In the Dynamic Order Quantity problem, the Demands of all succeeding months can be included in the demand of preceding one provided that ---
-----.

- A. Shortage and Setup Costs are balanced
- B. Item and Holding Costs are balanced
- C. Setup and Holding Costs are balanced**
- D. Shortage and Item Costs are balanced

Question No:11

(Marks:1)

Vu-Topper RM

In the graph of Purchasing Model with shortages, the area above the horizontal axis represents -----.

- A. carrying cost of item**
- B. shortage cost of item
- C. set up cost of item
- D. purchase cost of item

Question No:12

(Marks:1)

Vu-Topper RM

The parameters like demand and ordering quantity cost are quite -----
in the Deterministic inventory models.

- A. Certain**
- B. uncertain

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Question No:13

(Marks:1)

Vu-Topper RM

Which of the following can NOT be considered to include in shortage cost?

A. Overtime expenses

B. Loss of goodwill of customers due to delay

C. Cost of lost sales

D. Cost of expediting

Question No:14

(Marks:1)

Vu-Topper RM

Which of the following cost for an item is independent of the quantity ordered or produced?

A. Inventory holding cost

B. Shortage Cost

C. Set-up cost

D. Item cost

Question No:15

(Marks:1)

Vu-Topper RM

If a firm produces its own goods instead of purchasing the same from an outside source, then the cost of resetting the equipment for production may referred to -----

A. Set-up cost

B. Item cost

C. Inventory holding cost

D. Shortage Cost

Question No:16

(Marks:1)

Vu-Topper RM

Under which of the following condition the economic order quantity in case of Purchasing Model with Shortage can be transformed into Purchasing Model with no Shortage?

A. When Carrying Cost tends to zero

B. When Carrying Cost tends to infinity

C. When shortage Cost tends to zero

D. When Shortag Cost tends to infinity

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Question No:17

(Marks:1)

Vu-Topper RM

Holding Cost is ----- proportional to the quantity to be kept in stock and the time to which the inventory is maintained.

A. directly

B. inversely

Question No:18

(Marks:1)

Vu-Topper RM

What is the main difference between deterministic and stochastic inventory problems?

A. The complexity of mathematical models used.

B. The type of inventory items considered.

C. The method of inventory control used.

D. The presence of uncertainty in parameters.

Question No:19

(Marks:1)

Vu-Topper RM

In the graph of the Purchasing Model with shortages, the area under the horizontal axis represents -----.

A. carrying cost of item

B. set up cost of item

C. purchase cost of item

D. shortage cost of item

Question No:20

(Marks:1)

Vu-Topper RM

Which of the following is a component of inventory holding cost?

A. Ordering cost

B. Taxes on inventories

C. Setup cost

D. Item cost

Question No:21

(Marks:1)

Vu-Topper RM

If the economic order quantity and the annual demand of a product are 2500 and 5000 units respectively, then WITHOUT any shortage the number of orders are -----.

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- A. 02
- B. 125
- C. 500
- D. 30

Question No:22 (Marks:1) **Vu-Topper RM**

If the total inventory in one cycle of 't' units of time is $(1/2)Qt$, then which of the following is the average inventory at any time?

- A. Q/t
- B. $(Q/2)t$
- C. $Q/2$
- D. $2Q$

Question No:23 (Marks:1) **Vu-Topper RM**

If the cost function in terms of economic order quantity is $C = Q^2 - 400Q$, then the minimum cost of inventory per unit of time is ----- units.

- A. 800
- B. 400
- C. 398
- D. 200

Question No:24 (Marks:1) **Vu-Topper RM**

Which of the following technique to solve the net work flow diagrams, is activity oriented?

- A. Programme Evaluation and Review Technique
- B. Critical Path Method

Question No:25 (Marks:1) **Vu-Topper RM**

A shortage of 20 units incurs a cost of Rs. 100/unit/day. If the shortage lasts for 5 days, what is the total shortage cost?

- A. 5000
- B. 10000

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- C. 500
- D. 1000

Question No:26 (Marks:1) **Vu-Topper RM**

Which of the following cost of an item vary directly with its lack of quantity and delaying time ?

- A. Shortage Cost**
- B. Inventory holding cost
- C. Item cost
- D. Set-up cost

Question No:27 (Marks:1) **Vu-Topper RM**

If the annual demand of a product is 10000 items, and its set up and inventory costs are 200 and 100 respectively then its economic order quantity is -----provided that shortage is fulfilled INSTANTANEOUSLY.

- A. 100 units
- B. 20000 units
- C. 200 units**
- D. 40000 units

Question No:28 (Marks:1) **Vu-Topper RM**

In Wilson's model, the term "cycle time" refers to _____.

- A. Supplier lead time
- B. Time between orders**
- C. Production time
- D. Inventory depletion time

Question No:29 (Marks:1) **Vu-Topper RM**

Which is the following reason is essential for an enterprise to have an inventory?

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A. It helps in maintaining economy by absorbing some of the fluctuations when the demand of an item fluctuates or is seasonal.

B. All above reasons are equivalent.

C. It helps in minimizing the loss due to deterioration, obsolescence, damage etc.

D. Take advantage of price discounts by bulk purchasing.

Question No:30

(Marks:1)

Vu-Topper RM

A single cycle consists of two phases in case of “Manufacturing without Shortage”, then which of the following is the first phase?

A. Withdrawl of items from inventory at constant rate in per unit of time

B. The inventory is assembled at constant rate per unit of time

Question No:31

(Marks:1)

Vu-Topper RM

Which of the following situations directly leads to a shortage cost?

A. Ordering more items than needed

B. Delayed shipment from a supplier

C. An increase in the price of raw materials

D. A decrease in storage space availability

Question No:32

(Marks:1)

Vu-Topper RM

What is the key limitation of Wilson's EOQ model?

A. Assumes no shortages

B. No seasonal demand

C. Orders anytime

D. Ignores storage limits

Question No:33

(Marks:1)

Vu-Topper RM

In Wilson's model, what is the average inventory level?

A. Zero, since there are no shortages

B. The maximum order quantity (Q)

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C. Half of the maximum order quantity (Q/2)

D. Equal to the annual demand (D)

Question No:34

(Marks:1)

Vu-Topper RM

In a project network diagram, what does a "node" represent?

A. A potential delay in the project

B. The start or end of an activity

C. The duration of an activity

D. A resource required for an activity

Question No:35

(Marks:1)

Vu-Topper RM

For a development project, if its Standard Normal variable = 1.38, expected and the scheduled durations of the project are 100 and 110 days respectively,

then the Standard Deviation in the project length is -----.

A. 52.50

B. 7.246

C. -7.246

D. -52.50

Question No:36

(Marks:1)

Vu-Topper RM

Which of the following cost of an item varies directly with the size of inventory as well as the time the item held in stock?

A. Item cost

B. Inventory holding cost

C. Shortage Cost

D. Set-up cost

Question No:37

(Marks:1)

Vu-Topper RM

By putting the Replacement Rate 'R?Infinity' and Shortage Cost 'C4?Infinity' in the Economic Order Quantity(EOQ) of Manufacturing Model with allowed Shortage, then the result is -----

A. EOQ of Purchasing Model with allowed Shortage

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B. EOQ of Wilson's Model

C. Invariant

D. EOQ of Manufacturing Model without Shortage

Question No:38

(Marks:1)

Vu-Topper RM

In the Purchasing Model with Shortages the Cost Function 'C(S,Q)' can also be expressed as function of -----.

A. (Q,D)

B. (t,D)

C. (S,t)

D. (S,D)

Question No:39

(Marks:1)

Vu-Topper RM

In the Dynamic Order Quantity problem if the ratio of Setup and Carrying Costs is '500' and the Demands of 2nd and 3rd months are 50 and 130 respectively then which of the following is true about the 2nd month's requirement?

A. 2nd month demand will have to fulfill in 2nd month

B. 2nd month demand can be included in any month of the year

C. 2nd month demand can be included in 3rd month

D. 2nd month demand can be included in 1st month

Question No:40

(Marks:1)

Vu-Topper RM

Which of the following is a key characteristic of deterministic inventory models?

A. Key parameters are known with certainty.

B. Inventory costs fluctuate significantly.

C. Stockouts are a regular occurrence.

D. Demand for the product is unpredictable.

Question No:41

(Marks:1)

Vu-Topper RM

In which of the following model, the Carrying Cost per unit of time is reduced in the ratio

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(1-D/R):1 ?

- A. Purchasing Model with allowed Shortage
- B. Manufacturing Model with allowed Shortage
- C. Purchasing Model without Shortage
- D. Manufacturing Model without Shortage**

Question No:42

(Marks:1)

Vu-Topper RM

The graph of Wilson's Model (Purchasing Model with no shortage) is of the ----- shape.

- A. equilateral triangular
- B. saw tooth**
- C. isosceles triangular
- D. rectangular

Question No:43

(Marks:1)

Vu-Topper RM

Wilson's model is best suited for a company managing inventory for a product with _____.

- A. Low holding costs and high ordering costs
- B. Stable demand and minimal risk of shortages**
- C. Unpredictable demand and high shortage costs
- D. Seasonal demand and long lead times

Question No:44

(Marks:1)

Vu-Topper RM

What is the lead time assumed to be in Wilson's model?

- A. Infinite
- B. Random
- C. Variable
- D. Zero**

Question No:45

(Marks:1)

Vu-Topper RM

In the Dynamic Order Quantity problem if the ratio of Setup and Carrying Costs is '500' and the Demands of 2nd and 3rd months are 50

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and 120 respectively then which of the following is true about the 2nd month's requirement?

- A. 2nd month demand will have to fulfill in 2nd month**
- B. 2nd month demand can be included in any month of the year
- C. 2nd month demand can be included in 3rd month
- D. 2nd month demand can be included in 1st month

Question No:46 (Marks:1) **Vu-Topper RM**

If we decrease the inventory then the shortage cost and the ----- per unit of time will increase.

- A. set up cost**
- B. carrying cost

Question No:47 (Marks:1) **Vu-Topper RM**

How does PERT help prevent project delays?

- A. By eliminating all uncertainty
- B. By identifying activities most likely to cause delays**
- C. By focusing solely on cost optimization
- D. By guaranteeing a fixed completion date

Question No:48 (Marks:1) **Vu-Topper RM**

The amount of the inventory will always taken to be -----

- A. Negative
- B. Positive**

Question No:49 (Marks:1) **Vu-Topper RM**

In the context of Wilson's model, at time $t = 0$, the quantity 'Q' of the product is----- in the inventory.

- A. Minimum
- B. Zero
- C. Maximum**
- D. Average

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Question No:50

(Marks:1)

Vu-Topper RM

In the Wilson's Model, an optimum order quantity for one period is found when item holding cost = -----.

- A. shortage cost**
- B. set up cost
- C. purchase cost
- D. All are equivalent

Question No:51

(Marks:1)

Vu-Topper RM

Which mathematical models are commonly used in inventory control to answer questions about how much to stock and how often to buy?

- A. Economic order quantity models**
- B. Production scheduling models
- C. Economic production quantity models
- D. Inventory optimization models

Question No:52

(Marks:1)

Vu-Topper RM

The graphical representation of Wilson's model is called a "saw-tooth" model because it depicts _____.

- A. The impact of lead time on inventory
- B. Fluctuations in demand over time
- C. The relationship between order quantity and costs
- D. The gradual decrease in inventory level**

Question No:53

(Marks:1)

Vu-Topper RM

If weights are 2, 9 and 20 or optimistic, most likely and pessimistic time estimates, respectively, then select the most suitable answer.

- A. $V_t = 9$
- B. $t_e = 9$
- C. $S_t = 4$

D. $t_e = t_o + 4t_m + t_p$

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Question No:54

(Marks:1)

Vu-Topper RM

Excess of inventories are undesirable due to the following reasons;

A. All above reasons are equivalent

B. It locks up the capital of the enterprise.

C. It may not lead to high volume of output instead it might hamper the production.

D. It includes the expenses of stores, equipment, personnel, insurance etc..

Question No:55

(Marks:1)

Vu-Topper RM

You're managing inventory for a product with stable, predictable demand and reliable suppliers. Which type of model is likely a better fit?

A. Deterministic model

B. A hybrid model combining both approaches

C. Neither type of model is applicable

D. Probabilistic model

Question No:56

(Marks:1)

Vu-Topper RM

If a company reduces its order size but orders more frequently, which cost is likely to INCREASE?

A. Holding cost

B. Item cost

C. Ordering cost

D. Shortage cost

Question No:57

(Marks:1)

Vu-Topper RM

In a network flow diagram, if an event is the predecessor of three other events then how many dummies are inevitable to include in the network?

A. One

B. Two

C. Four

D. Three

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Question No:58

(Marks:1)

Vu-Topper RM

Except the economic order quantity, the value of Q^* will result in -----

- A. zero cost
- B. average cost
- C. lower cost**
- D. higher cost

Question No:59

(Marks:1)

Vu-Topper RM

While solving a network flow problem by using PERT, the area under the Normal Distribution curve gives -----.

- A. Probability of completion**
- B. Variance of the project length
- C. Expected time of completion
- D. Standard Deviation of project length

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Question No:60

(Marks:1)

Vu-Topper RM

If the demand of an item is occurred in the period of stock out and it is satisfied at the beginning of the next cycle then such type of problem will discuss under which of the following?

- A. Purchasing Model with no shortages
- B. Purchasing Model with shortages**

Question No:61

(Marks:1)

Vu-Topper RM

In the Dynamic Order Quantity problem if the ratio of Setup and Carrying Costs is '500' and the Demands of 2nd and 3rd months are 50 and 120 respectively then which of the following is true about the 2nd month's requirement?

- A. 2nd month demand can be included in 1st month
- B. 2nd month demand can be included in any month of the year
- C. 2nd month demand can be included in 3rd month**
- D. 2nd month demand will have to fulfill in 2nd month

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Question No:62

(Marks:1)

Vu-Topper RM

Which of the following technique to solve the network flow diagrams, is event oriented?

A. Critical Path Method

B. Programme Evaluation and Review Technique

Question No:63

(Marks:1)

Vu-Topper RM

If weights are 1, 5 and 13 or optimistic, most likely and pessimistic time estimates, respectively, then select the most suitable answer.

A. $V_t = 5$

B. $S_t = 2$

C. $t_e = 9$

D. $t_e = 6t_o + 4t_m + t_p$

Question No:64

(Marks:1)

Vu-Topper RM

Duration of the project is described by the _____ to complete the project.

A. latest start time

B. quick time

C. longest time

D. shortest time

Question No:65

(Marks:1)

Vu-Topper RM

In 1958, Saaty defined OR as “The art of giving _____ answer to problems to which, otherwise, _____ answers are given.”

A. excellent, worse

B. bad, worse

C. worse, bad

D. good, excellent

Question No:66

(Marks:1)

Vu-Topper RM

Operations research (OR) is the application of quantitative methods to _____ making.

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- A. observation
- B. formula
- C. decision**
- D. all of these

Question No:67 (Marks:1) **Vu-Topper RM**
The length of a path in a network is the total _____ it takes to travel along the path.

- A. days
- B. length
- C. months
- D. time**

Question No:68 (Marks:1) **Vu-Topper RM**
Delay in critical activities for a project management lead to _____.

- A. All above choices are equivalent**
- B. more resources have to employed
- C. project finish time will have to extend
- D. project cost will increase

Question No:69 (Marks:1) **Vu-Topper RM**
CPM is abbreviation of _____.

- A. Continuous Path Membership
- B. Critical Path Method**
- C. Constant Process Method
- D. Critical Performance Method

Question No:70 (Marks:1) **Vu-Topper RM**
The first step in the application of _____ is to develop a network representation of the project plan.

- A. linear programming
- B. probability

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C. none of these

D. CPM

Question No:71 (Marks:1)

Vu-Topper RM

Duration of dummy activity is _____.

A. 1

B. early start time

C. zero

D. latest start time

Question No:72 (Marks:1)

Vu-Topper RM

Which of the following is the is major assumed difference between the models of Purchasing and Manufacturing without shortage ?

A. Shortage

B. Replacement rate

C. Demand

D. Item, Setup and Holding Costs

Question No:73 (Marks:1)

Vu-Topper RM

Which of the following property assumed that the coefficients of decision variables in a Linear Programming model are known with certainty?

A. Proportionality

B. Deterministic

C. Additivity

D. Divisibility

Question No:74 (Marks:1)

Vu-Topper RM

In the Graphical method, we determine -----.

A. feasible solution from among all optimal solutions.

B. basic variables from among all non-basic variables.

C. optimal solution from among all feasible solutions.

D. non-basic variables from among all basic variables.

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Question No:75

(Marks:1)

Vu-Topper RM

Which of the following correspond to the practical limitations of available resources while modeling a real life situation into a linear program?

- A. Decision variables
- B. Linear function
- C. Constraints**
- D. Objective function

Question No:76

(Marks:1)

Vu-Topper RM

Non-feasible solution----- associated with a given linear programming problem.

- A. does not satisfy all the constraints**
- B. does not satisfy least one of the constraint
- C. satisfy all the constraints
- D. satisfy least one of the constraint

Question No:77

(Marks:1)

Vu-Topper RM

Which of the following method would remain impractical to solve a Linear Programming problem when there are more than two decision variable?

- A. Graphical**
- B. Algebraic (Simplex)

Question No:78

(Marks:1)

Vu-Topper RM

One of the properties of Linear Programming Model is that -----.

- A. it would not have any non-positive decision variable
- B. All other choices are equally important
- C. the objective function should be linear**
- D. the relationship between problem variables and constraints must be linear

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Question No:79

(Marks:1)

Vu-Topper RM

Under which of the following condition, the Economic Order Quantity (EOQ) of Manufacturing Model with allowed Shortage can be transformed into the same Model without Shortage?

- A. When Shortage Cost is infinity**
- B. When Setup Cost is infinity
- C. When Shortage Cost is zero
- D. When Setup Cost is zero

Question No:80

(Marks:1)

Vu-Topper RM

If a manufacturer company produces two types of product say 'A' and 'B' in 'x' and 'y' quantity respectively then which of the following would be the objective if the profit on one unit of 'A' is Rs.6 and on 'B' is Rs.11?

- A. $\text{Min } z = 6x + 11y$
- B. $\text{Max } z = 6x - 11y$
- C. $\text{Max } z = 66xy$
- D. $\text{Max } z = 6x + 11y$**

Question No:81

(Marks:1)

Vu-Topper RM

Which of the following would be the objective of the revenue in a production of cell phones?

- A. Average
- B. Minimization
- C. Inflection
- D. Maximization**

Question No:82

(Marks:1)

Vu-Topper RM

Which of the following is an intermediate step to model a linear programming problem?

- A. Identify the non-negative restrictions and constraints
- B. None of these
- C. Identify the objective function

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D. Identify the unknown decision variables

Question No:83

(Marks:1)

Vu-Topper RM

For an industrialist, optimization means -----.

A. both maximizing its profit and minimizing its cost

B. minimizing its cost only

C. change the business strategy and looking forward new customers

D. maximizing its profit only

Question No:84

(Marks:1)

Vu-Topper RM

A linear programming problem can be converted into a Transportation problem by restricting the coefficients 'a_{ij}' to have the values-----.

A. either '0' or '1'

B. One only

C. arbitrarily

D. Zero only

Question No:85

(Marks:1)

Vu-Topper RM

In a Linear Programming problem, the decision variable can assume any value -----.

A. zero or negative

B. non-zero

C. zero or positive

D. one

Question No:86

(Marks:1)

Vu-Topper RM

Which of the following is the meaning of 'Linear'?

A. Relationship between the variables is discrete line

B. Relationship between the variables is finite or infinite

C. Relationship between the variables is a straight line

D. Relationship between the variables is a curvilinear

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Question No:87

(Marks:1)

Vu-Topper RM

In a Linear Programming model, any constraint contains at least ----- variable.

A. arbitrary

B. one

C. two

D. three

Question No:88

(Marks:1)

Vu-Topper RM

The word 'Linear' in Linear programming problem describes ----- between two or more variables.

A. that a Correlation exists

B. an inverse proportionate relation

C. a recurrence relation

D. a direct proportionate relation

Question No:89

(Marks:1)

Vu-Topper RM

Which of the following is first step to model a linear programming problem?

A. Identifying the unknown decision variables

B. Identifying the objective function

C. Identifying the non-negative constraints

D. Identifying all the restrictions

Question No:90

(Marks:1)

Vu-Topper RM

Linear Programming is the backbone of Operations Research models due to-----.

A. its fantastic computational efficiency

B. unrestricted signs of decision variables

C. linearity of objective function and constraints

D. non-negativity of decision variables

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Question No:91

(Marks:1)

Vu-Topper RM

Choose the correct one for the project times that are used in project management.

- A. Latest start time, Latest finish time, PERT, Earliest finish time
- B. Latest start time, Latest finish time, Earliest start time, Earliest finish time**
- C. PERT, CPM
- D. Latest start time, Latest finish time, Earliest start time, CPM

Question No:92

(Marks:1)

Vu-Topper RM

In a network flow diagram, for an activity (i,j) of duration of three days, if its earliest start time is of two days then which of the following will be its early finish time?

- A. One and half day
- B. Five days**
- C. Six days
- D. One day

Question No:93

(Marks:1)

Vu-Topper RM

While finding the Critical Path, in the phase of Early Start and Early Finish computations, we start from first event and proceed calculations from left to right up to the ----- event.

- A. arbitrary
- B. starting**
- C. middle
- D. list

Question No:94

(Marks:1)

Vu-Topper RM

In a development project, if an activity (q,r) of five days duration, starts late on 2nd day then which of the following will be its latest finish time?

- A. 7th**
- B. 4th
- C. 10th

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D. 3rd

Question No:95 (Marks:1) **Vu-Topper RM**
Operations research (OR) is the application of _____ methods to decision making.

- A. engineering
- B. quantitative**
- C. computing
- D. all

Question No:96 (Marks:1) **Vu-Topper RM**
If the variance of the project length = 25, expected and scheduled times are 40 and 36 respectively, then the Standard Normal Variable of the given project is-----.

- A. 0.16
- B. -0.80**
- C. -0.16
- D. 0.80

Question No:97 (Marks:1) **Vu-Topper RM**
PERT is an acronym for _____ .

- A. Program Evaluation and Review Teacher
- B. Program Evaluation and Review Technique**
- C. Performance Evaluation and Review Technique Observation
- D. Program Execution and Revenue Technique

Question No:98 (Marks:1) **Vu-Topper RM**
Which of the following relation is correct for the Standard Deviation of an activity times having optimistic, pessimistic and most likely values as 4, 8 and 6 days respectively?

- A. 7.111
- B. 0.666**
- C. 0.1

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D. 0.147

Question No:99

(Marks:1)

Vu-Topper RM

Which of the following is an operations research (OR) process?

A. Networking

B. Solution

C. Simplex method

D. Linear programming

Question No:100

(Marks:1)

Vu-Topper RM

In a development project, if an activity (m,n) of seven days duration, starts late on 5rd day then which of the following will be its latest finish time?

A. 12th

B. 5th

C. 7th

D. 5th or 7th

Question No:101

(Marks:1)

Vu-Topper RM

While finding the Critical Path, in the phase of Early Start and Early Finish computations, we start from ----- event and proceed calculations from left to right up to the final event.

A. arbitrary

B. last

C. middle

D. first

Question No:102

(Marks:1)

Vu-Topper RM

Which of the following is uncertain in PERT?

A. Activities' precedence relation

B. Resources associated with each activity

C. Activities' completion times

D. Activity Cost

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Question No:103

(Marks:1)

Vu-Topper RM

Which of the following distribution gives the probability of completing the assigned project by considering the expected time of any activity as random variable?

- A. Poisson
- B. Beta**
- C. Binomial
- D. Normal

Question No:104

(Marks:1)

Vu-Topper RM

Which of the type of path will be critical in network flow diagram?

- A. Any path from starting node to end node
- B. Any path from starting node to end node with minimum cost
- C. Longest path from starting node to end node**
- D. Shortest path from starting node to end node

Question No:105

(Marks:1)

Vu-Topper RM

In a network flow diagram, if two jobs 'a(l,n)' and 'b(m,n)' of '8' and '9' days durations respectively, start earlier simultaneously on 2nd day, then the next activity containing 'n' as head event can't start until the entering activity _____ is completed.

- A. m.n
- B. l.n**
- C. m.l
- D. l.m

Question No:106

(Marks:1)

Vu-Topper RM

In a network flow diagram, if two jobs 'a(i,j)' and 'b(i,k)' of '4' and '3' days duration, finish late simultaneously on 7th day, then on which of the following day the event 'i' will finish earlier?

- A. 1
- B. 3**
- C. 4

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D. 6

Question No:107

(Marks:1)

Vu-Topper RM

Which of the following value is correct for the Variance of an activity times having optimistic, pessimistic and most likely values as 4, 8 and 6 days respectively?

- A. 0.1
- B. 0.147
- C. 0.666
- D. 0.444**

Question No:108

(Marks:1)

Vu-Topper RM

If we increase the inventory, then the shortage cost will decrease and the carrying cost will -----.

- A. Remain constant
- B. Increase**
- C. Also decrease
- D. Uncertain

Question No:109

(Marks:1)

Vu-Topper RM

If the economic order quantity and the annual demand of a product are 2500 and 5000 units respectively, then WITHOUT any shortage the time between the consecutive orders is ----- months.

- A. 0.2
- B. 2.50
- C. 0.50**
- D. 1.50

Question No:110

(Marks:1)

Vu-Topper RM

While solving a Linear Programming problem, the first step is -----.

- A. To obtain alternate solutions
- B. To obtain basic feasible solutions
- C. Formulation of the problem**

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D. Model building

Question No:111

(Marks:1)

Vu-Topper RM

A linear programming model has three basic components; the decision variables, the Objective function and ----- .

A. Constraints

B. Unrestricted variables

C. Feasible solution

D. Artificial variable

Question No:112

(Marks:1)

Vu-Topper RM

For a development project, if its Standard Normal variable = 1.38, expected and the scheduled durations of the project are 100 and 110 days respectively, then Variance in the project length is -----.

A. -7.246

B. -52.50

C. 52.50

D. 7.246

Question No:113

(Marks:1)

Vu-Topper RM

In the phase of Late Start and Late Finish, to find the Critical Path in a network flow diagram, which of the following will be taken as latest finish time of the final event?

A. Early Start of the final event

B. Early finish of final event

C. Late start of the final event

D. Expected time of final event

Question No:114

(Marks:1)

Vu-Topper RM

By putting the replacement rate 'R=infinity' in the Economic Order Quantity(EOQ) of Manufacturing Model with allowed Shortage, then the result is -----.

A. EOQ of Purchasing Model without Shortage

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- B. EOQ of Manufacturing Model without Shortage
C. EOQ of Purchasing Model with allowed Shortage
D. None of the these

Question No:115 (Marks:1) **Vu-Topper RM**

In a project, a network diagram shows the ----- relations of the inter related activities along with their corresponding activity times.

- A. Deterministic and probabilistic
B. Precedence or succession
C. Union and intersection
D. Dummy and artificial

Question No:116 (Marks:1) **Vu-Topper RM**

In Wilson's model, Total cost = -----

- A. Item cost + holding cost + shortage cost + setup cost
B. Item cost + holding cost + shortage cost
C. Holding cost + shortage cost + setup cost
D. Item cost + set up cost + holding cost

Question No:117 (Marks:1) **Vu-Topper RM**

Which of the following is the major objective of the ABC analysis of inventory?

- A. To fulfill the demand of items
B. To replace the required items in proper time
C. To control the inventories
D. To classify the items in different categories

Question No:118 (Marks:1) **Vu-Topper RM**

Which of the following category of items in ABC analysis needs special attention by the management?

- A. A category**
B. B category
C. C category

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D. All categories need equal and fair attention

Question No:119

(Marks:1)

Vu-Topper RM

Which of the following correspond to the economic or physical quantities which are under the control of operations researcher while modeling a real life situation into a linear program?

- A. Objective function
- B. Constraints
- C. Decision variables**
- D. Linear function

Question No:120

(Marks:1)

Vu-Topper RM

While identifying the Critical Path of a network flow diagram, the Late Start and Late Finish phase confirms that project start time is -----.

- A. Serial
- B. Zero**
- C. Infinity
- D. Arbitrary

Question No:121

(Marks:1)

Vu-Topper RM

In PERT, the possible variation in activity times is measured from Standard Deviation which is -----of the difference between Pessimistic and Optimistic times.

- A. One sixth**
- B. One fourth
- C. One third
- D. One fifth

Question No:122

(Marks:1)

Vu-Topper RM

Which of the following property ensures that the decision variables can be divided into any fractional levels so that the rational(fractional) values for the decision variables are permitted?

- A. Deterministic

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- B. Additivity
- C. Proportionality
- D. Divisibility**

Question No:123 (Marks:1) **Vu-Topper RM**
If we increase the inventory, then the shortage cost will -----.

- A. Remain constant
- B. Increase
- C. Decrease**
- D. Uncertain

Question No:124 (Marks:1) **Vu-Topper RM**
In the phase of Early Start and Early Finish, to find the Critical Path in a network flow diagram, the computations are proceeded from -----
- to the final event.

- A. Bottom to top
- B. Right to left
- C. Left to right**
- D. Top to bottom

Question No:125 (Marks:1) **Vu-Topper RM**
In an optimization problem, we seek for maximizing or minimizing a specific quantity, called the -----.

- A. Decision variables
- B. Constraints
- C. Feasible solution
- D. Objective function**

Question No:126 (Marks:1) **Vu-Topper RM**
Modeling of a Linear Programming problem from a real life world is a/an ----- .

- A. Art**
- B. Science

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- C. Engineering
- D. Technology

Question No:127

(Marks:1)

Vu-Topper RM

In a Linear Programming problem which of following condition is compulsory?

- A. Least Objective function needs to be linear
- B. Least constraints need to be linear
- C. Both Objective function and constraints need to be linear**
- D. Neither objective nor constraints to be linear

Question No:128

(Marks:1)

Vu-Topper RM

Which of the following is true about the Manufacturing model without Shortage?

- A. Demand rate = Replacement rate
- B. Demand rate > Replacement rate
- C. Demand rate < Replacement rate**
- D. None of the above

Question No:129

(Marks:1)

Vu-Topper RM

In the relation of finding the expected time of an activity, most likely time is weighted more than the other optimistic and pessimistic times and these exist in the ratio of -----.

- A. 6:1**
- B. 2:1
- C. 4:1
- D. 3:1

Question No:130

(Marks:1)

Vu-Topper RM

In Project Management, Critical Path method is based on ----- times.

- A. Deterministic
- B. Probabilistic**

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- C. Stochastic
- D. Serial

Question No:131

(Marks:1)

Vu-Topper RM

The network flow diagrams for PERT and CPM are same except for -----
-----.

- A. Dummy activities
- B. Critical Path**
- C. Initial and final events
- D. Activity times

Question No:132

(Marks:1)

Vu-Topper RM

The task which is executed by the usage of resources and time is called _____. Select correct option.

- A. Node
- B. Event
- C. Project
- D. Activity**

Question No:133

(Marks:1)

Vu-Topper RM

In a network flow diagram, two jobs (i,j) and (i,k) of '9' and '6' days duration leaves the node 'i' then which of the following will be Late start time for 'i', if it is provided that both (i,j) and (i,k) finish late on 12th and 8th day respectively?

- A. 6th day
- B. 2nd day
- C. 3rd day**
- D. 1st day

Question No:134

(Marks:1)

Vu-Topper RM

A Critical Path in a network flow diagram -----.

- A. Is unique**
- B. May at most two

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- C. None of the above
- D. Depends on number of dummies may be multiple

Question No:135

(Marks:1)

Vu-Topper RM

For any activity (i,j), if , a) Earliest start time of 'i' = Latest finish time of 'i', b) Earliest start time of 'j' = Latest finish time of 'j', c) difference of Earliest start times of events 'i' and 'j' = difference of Latest finish times of events 'i' and 'j' = time to complete the job, then the activity (i,j) is said to be.

- A. Dummy
- B. Critical
- C. Non-Critical**
- D. None of the above

Question No:136

(Marks:1)

Vu-Topper RM

In a network flow diagram, for an activity (i,j) of six days duration, if its Late Finish time is of nine days, then which of the following will be its Late Start time?

- A. Twelve days
- B. Fifteen days
- C. Three days
- D. Six days**

Question No:137

(Marks:1)

Vu-Topper RM

In a network flow diagram, which of the following method through computations provides, i) start and completion times for each activity, ii) critical and non critical activities and iii) total and free slacks?

- A. Resource Scheduling
- B. Resource Allocation
- C. PERT
- D. CPM**

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Question No:138

(Marks:1)

Vu-Topper RM

If an activity has non-zero value of total float such that it can be further delayed to the length of slack without delaying the project, then it is said to be -----

- A. Critical
- B. Dummy critical
- C. Non-Critical
- D. None of the above**

Question No:139

(Marks:1)

Vu-Topper RM

A/An ----- is the collection of inter related activities to be performed in a particular sequence to completion.

- A. Project**
- B. Branch
- C. Event
- D. Node

Question No:140

(Marks:1)

Vu-Topper RM

Which of the following would be the objective of the yield per minute in a chemical process which depends upon the temperature 'x' and pressure 'y'?

- A. Minimization
- B. Inflection
- C. Maximization**
- D. Average

Question No:141

(Marks:1)

Vu-Topper RM

The mathematical technique which is used to solve a wide class of problems such as allocating scarce resources among competitive activities is known as -----.

- A. Classical model
- B. Descriptive model
- C. Linear programming model**

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D. Mathematical model

Question No:142

(Marks:1)

Vu-Topper RM

Which of the following would be the objective of the cost per unit of producing certain cameras?

- A. Average
- B. Minimization**
- C. Inflection
- D. Maximization

Question No:143

(Marks:1)

Vu-Topper RM

For critical path of a network, which of the followings is the best suitable answer.

- A. Its total float is zero
- B. Its free float is zero
- C. All of the above**
- D. Its independent float is zero

Question No:144

(Marks:1)

Vu-Topper RM

Which of the following quantity will vary in case of Dynamic Order Quantity Model?

- A. Setup Cost
- B. Carrying Cost
- C. Item Cost
- D. Demand**

Question No:145

(Marks:1)

Vu-Topper RM

Which of the following will be annual optimum cost of a product if the number of annual orders WITHOUT any shortage is 25 and the total cost of one cycle is 10,000?

- A. Rs.400
- B. Rs.10025
- C. Rs.9975

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D. Rs.250000

Question No:146

(Marks:1)

Vu-Topper RM

Which of the following would be the objective of the daily loss of heat in a heating system?

A. Maximization

B. Minimization

C. Inflection

D. Average

Question No:147

(Marks:1)

Vu-Topper RM

Solution of a Linear Programming problem is found by ----- methods.

A. Analytical

B. Probabilistic

C. Average

D. Pure algebraic

Question No:148

(Marks:1)

Vu-Topper RM

In the ABC analysis, the items are classified into three categories with respect their-----.

A. Cost value

B. Demand value

C. Turn over value

D. Mark up value

Question No:149

(Marks:1)

Vu-Topper RM

The objective function and ----- together form a Linear Programming problem.

A. A set off constraints

B. Unrestricted variables

C. Feasible region

D. Optimal solution

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Question No:150

(Marks:1)

Vu-Topper RM

Which of the following property must be satisfied by a linear programming model?

- A. Sensitivity**
- B. Negativity
- C. Additively
- D. Probability

Question No:151

(Marks:1)

Vu-Topper RM

Under which of the following condition, a mathematical Program would be non-linear?

- A. If least objective function is non-linear
- B. If both objective function and constraints are non-linear**

Question No:152

(Marks:1)

Vu-Topper RM

Wilson's model (Purchasing model with no shortages) is of the ----- type.

- A. Probabilistic
- B. Deterministic**

Question No:153

(Marks:1)

Vu-Topper RM

Dummy activity is represented by _____ .

- A. dotted line**
- B. left to right arrow
- C. dotted line with right to left arrow
- D. dotted line with left to right arrow

Question No:154

(Marks:1)

Vu-Topper RM

If someone asks you how much time you require to reach your VU campus from your house, you may say that it may take 1 to 1½ hours. Then you meant which of the following variable?

- A. Random**
- B. Continuous

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- C. Discrete
- D. Complex

Question No:155

(Marks:1)

Vu-Topper RM

When resource limits conflict with a fixed project deadline, what is the likely outcome?

- A. Delayed project completion**
- B. Improved resource efficiency
- C. Reduced project scope
- D. Increased resource costs

Question No:156

(Marks:1)

Vu-Topper RM

What is a common constraint in projects that require resource allocation?

- A. Limited resources**
- B. Flexible deadlines
- C. Unpredictable activity times
- D. Abundant funding

Question No:157

(Marks:1)

Vu-Topper RM

A network flow diagram can have _____ Critical Path(s).

- A. multiple**
- B. unique
- C. at most two
- D. depends on number of dummies

Question No:158

(Marks:1)

Vu-Topper RM

In a network flow diagram, a/an ----- is shown by dotted arrows and these consume no time or resources.

- A. activity
- B. nodes
- C. branch
- D. dummy**

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Question No:159

(Marks:1)

Vu-Topper RM

In resource leveling when two or more jobs compete for same resources, first try to allocate an activity, which is of ----- duration and next to the activity which having next ----- duration.

- A. most likely, pessimistic
- B. optimistic, most likely
- C. minimum , maximum**
- D. maximum, minimum

Question No:160

(Marks:1)

Vu-Topper RM

Which of the following situations would typically favor using PERT over CPM?

- A. Developing a new software product**
- B. Optimizing existing production
- C. Construction project with a fixed budget
- D. Routine factory maintenance

Question No:161

(Marks:1)

Vu-Topper RM

While estimating the time for a PERT activity, the estimator will give the three times estimates. When these three estimates are plotted on a graph, the probability distribution that we get is closely associated with -----
-----Distribution curve.

- A. Beta**
- B. Binomial
- C. Poisson
- D. Chi

Question No:162

(Marks:1)

Vu-Topper RM

When we have to manage a project with available resources, we have the option of resource leveling. Here the resources availability is less than the maximum resources required for an activity, then it is feasible to divert the resources to -----.

- A. dummy activities

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- B. critical activities
- C. head or tail activities
- D. non-critical activities**

Question No:163 (Marks:1) **Vu-Topper RM**

While finding the Critical Path, in the phase of Late Start and Late Finish, we start from ----- node, the computations are performed from right to left up to the beginning event.

- A. middle
- B. first
- C. last**
- D. arbitrary

Question No:164 (Marks:1) **Vu-Topper RM**

Which of the following times are not directly related to the activity cost as there is no certainty of time in such activities so their duration cannot be reduced, hence the cost cannot be expressed correctly?

- A. PERT Times**
- B. CPM Times

Question No:165 (Marks:1) **Vu-Topper RM**

There are _____ kinds of time calculations for a project.

- A. 1
- B. 2
- C. 3**
- D. 4

Question No:166 (Marks:1) **Vu-Topper RM**

In the PERT, the expected time is classified as a----- variable.

- A. random**
- B. fix valued (constant)
- C. complex valued
- D. continuous

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Question No:167

(Marks:1)

Vu-Topper RM

While finding the critical path in a network flow diagram, if an activity (i,j) starts and finish late on 3rd and 9th day respectively, then it will be completed in -----days.

- A. Three days
- B. Six days**
- C. Twelve days
- D. Fifteen day

Question No:168

(Marks:1)

Vu-Topper RM

Which of the following elements in a project network diagram signifies the direction of progress?

- A. The thickness of the lines
- B. The length of the arrows
- C. The position of the nodes
- D. The arrowheads**

Question No:169

(Marks:1)

Vu-Topper RM

Which factor is often used to prioritize jobs when allocating resources?

- A. Resource availability
- B. Activity duration
- C. Activity slack**
- D. Project budget

Question No:170

(Marks:1)

Vu-Topper RM

Operations research is based on _____.

- A. all of these**
- B. engineering
- C. economics
- D. computing

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Question No:171

(Marks:1)

Vu-Topper RM

In a development project, if an activity (i,j) of duration three days finish earlier on the tenth day then which of the following will be its early start day?

- A. First day
- B. Seventh day**
- C. Third day
- D. Fifth day

Question No:172

(Marks:1)

Vu-Topper RM

Which of the following violates a fundamental rule of network diagram construction?

- A. Multiple arrows for one activity**
- B. Two activities from one node
- C. Node with multiple incoming activities
- D. Activities with different durations

Question No:173

(Marks:1)

Vu-Topper RM

How are resources typically allocated in resource leveling?

- A. Based on project due dates.
- B. Based on resource availability.
- C. On a period-by-period basis.**
- D. Prioritizing activities on the critical path.

Question No:174

(Marks:1)

Vu-Topper RM

If for path 1-3-4 time is $5+3=8$ days, for path 1-2-3-4 time is $6+7+3=16$ days and for path 1-2-4 time is $6+6=12$ days, then which of the followings is true.

- A. 1-3-4 is critical path
- B. 1-2-3-4 is critical path**
- C. 1-2-4 is critical path
- D. 1-4 is critical path

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Question No:175

(Marks:1)

Vu-Topper RM

When we have to manage a project with available resources, we have the option of resource leveling. Here the resources availability is less than the maximum resources required for an activity, then it is feasible to delay the job having -----.

- A. largest total float**
- B. largest independent float
- C. dummy branch
- D. largest free float

Question No:176

(Marks:1)

Vu-Topper RM

The Mean and Variance of probabilistic nature of activity times in PERT are expressed by -----distribution.

- A. Bernoulli
- B. Chi
- C. Beta**
- D. Binomial

Question No:177

(Marks:1)

Vu-Topper RM

How does "activity slack" relate to resource leveling?

- A. It identifies activities that can be delayed.
- B. It determines the overall project duration.
- C. It provides flexibility for resource scheduling.**
- D. It calculates potential resource shortages.

Question No:178

(Marks:1)

Vu-Topper RM

In a network flow diagram, if an activity (i,j) starts earlier after two days and finish earlier on fifth day, then which of the following will be its completion time?

- A. Ten days
- B. Two days
- C. Three days**
- D. Five days

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Question No:179

(Marks:1)

Vu-Topper RM

Suppose you are analyzing a network diagram, which of the following would indicate a dummy activity?

- A. An arrow with no label
- B. An arrow pointing backwards
- C. A thick, solid arrow
- D. A dotted arrow**

Question No:180

(Marks:1)

Vu-Topper RM

In 1948, Morse defined OR as “The term OR, has here-to fore been used to connote various attempts to study operations of war by_____. From a more general point of view, OR can be considered to be an attempt to study those operations of modern society which involved organizations of men or men and machines.”

- A. none of these
- B. computational methods
- C. graphical methods
- D. scientific methods**

Question No:181

(Marks:1)

Vu-Topper RM

Which of the following is not a problem of probabilistic technique.

- A. Linear programming**
- B. Forecasting
- C. Decision analysis
- D. Game theory

Question No:182

(Marks:1)

Vu-Topper RM

In 1946, Morse & Kimbel has defined operations research as “OR is a _____ of providing executive departments with a quantitative basis for decision regarding the operations under their_____”

- A. computational method, control
- B. scientific method, control**
- C. graphical method, analytical

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D. none of these

Question No:183

(Marks:1)

Vu-Topper RM

In a network flow diagram, two jobs (m,n) and (m,o) of '11' and '8' days duration leaves the node 'm' then which of the following will be Late start time for 'm', if it is provided that both (m,n) and (m,o) finish late on 14th and 10th day respectively?

A. 1st day

B. 2nd day

C. 3rd day

D. 6th day

Question No:184

(Marks:1)

Vu-Topper RM

While finding the Critical Path, in the phase of Late Start and Late Finish, we start from last node and the computations are performed from ----- up to the beginning event.

A. left to right

B. right to left

C. top to bottom

D. bottom to top

Question No:185

(Marks:1)

Vu-Topper RM

Which of the following times are directly related to the activity cost that is by reducing the activity duration, the direct cost of the corresponding activity is increased?

A. PERT Times

B. CPM Times

Question No:186

(Marks:1)

Vu-Topper RM

In 1948, Blackett defined OR as "OR is a _____ of providing executives with any _____ and objective basis for decisions"

A. scientific method, analytical

B. none of these

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- C. computational method, control
- D. graphical method, home

Question No:187

(Marks:1)

Vu-Topper RM

What is the primary purpose of resource-leveling programs?

- A. Minimize project duration
- B. Reduce resource costs
- C. Increase project flexibility
- D. Maintain consistent resource usage**

Question No:188

(Marks:1)

Vu-Topper RM

When would resource leveling be MOST beneficial?

- A. Projects with highly fluctuating resource needs**
- B. Projects with complex dependencies
- C. Projects with limited budgets for training
- D. Projects with tight deadlines

Question No:189

(Marks:1)

Vu-Topper RM

In a development project, if an activity (m,n) of seven days duration, starts late on 3rd day then which of the following will be its latest finish time?

- A. 10th day**
- B. 4nd day
- C. 21th day
- D. 3rd day

Question No:190

(Marks:1)

Vu-Topper RM

What is the primary focus of the Critical Path Method (CPM)?

- A. Evaluating the progress of research and development projects
- B. Optimizing the trade-off between project cost and completion time**
- C. Scheduling projects with a high degree of complexity
- D. Handling uncertainty in project activity durations

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Question No:191

(Marks:1)

Vu-Topper RM

In 1957, Churchmen Ackoff and Arnoff defined OR as “OR is the application of _____, techniques and tools to problems involving the operations of systems so as to provide those in control of the operations with optimum solutions to the problem.”

- A. scientific methods**
- B. none of these
- C. computational methods
- D. graphical methods

Question No:192

(Marks:1)

Vu-Topper RM

In a network flow diagram, two jobs ‘a(i,k)’ and ‘b(j,k)’ of durations ‘4’ and ‘5’ days respectively, enter an event ‘k’ then which of the following will be earliest start day of ‘k’ provided that (i,k) and (j,k) have started earlier at 3rd and 4th day respectively?

- A. 9th**
- B. 7th
- C. 6th
- D. 8th

Question No:193

(Marks:1)

Vu-Topper RM

A set of nodes connected by lines which begin at the initial node of a network and end at the terminal node is called _____.

- A. Critical path
- B. Node
- C. Path**
- D. Network

Question No:194

(Marks:1)

Vu-Topper RM

Which of the following is not a categories of the operations research (OR) techniques.

- A. Inventory techniques
- B. Linear mathematical programming technique

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C. Feasible solution

D. Network techniques

Question No:195

(Marks:1)

Vu-Topper RM

There are _____ kinds of time calculations for a project.

A. 2 types

B. 4 types

C. 6 types

D. 8 types

Question No:196

(Marks:1)

Vu-Topper RM

A dummy activity is a simulated activity of sorts, one that is of _____ duration and is created for the sole purpose of demonstrating a specific relationship and path of action on the arrow diagramming method.

A. Minimum

B. Maximum

C. Average

D. Zero

Question No:197

(Marks:1)

Vu-Topper RM

Activity definition refers to the process of parsing a project into a number of individual tasks which must be completed ___ the deliverables can be considered completed. Activity definitions rely on a number of specific input processes.

A. Before

B. After

C. Both before and after

D. None of the these

Question No:198

(Marks:1)

Vu-Topper RM

Best possible time estimate that a given activity would take under normal conditions which often exist, is called

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- A. Pessimistic time estimate
- B. Smallest time estimate
- c. None of the above
- D. Most likely time estimates**

Question No:199 (Marks:1) **Vu-Topper RM**

While solving a LP by Simplex method, which of the following corresponds to corner points of the feasible region in Graphical method?

- A. Non-feasible solution
- B. Basic feasible solution**
- C. Non-basic feasible solution
- d. Non-negative solution

Question No:200 (Marks:1) **Vu-Topper RM**

In a network flow diagram, if an event is the predecessor of three other events, then how many dummies are inevitable to include in the network?

- A. One
- B. Two**
- C. Four
- D. Three

Question No:201 (Marks:1) **Vu-Topper RM**

For finding the maximum profit in an enterprise of selling two products such that freezing the sale of one product and keep selling the other. This scenario is studied under.

- A. Un-roundedness
- B. Duality
- C. Degeneracy**
- d. None of the these

Question No:202 (Marks:1) **Vu-Topper RM**

Which of the following order pair would minimize the object function of the linear programming problem: $z=x+5y$ subject to $x \geq 2, y \geq 0$?

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- A. (2,3)
- B. (2,0)**
- C. (0,3)
- D. (0,2)

Question No:203 (Marks:1) **Vu-Topper RM**

A balanced transportation model with 5 number of source 7 destinations has _ number of constraint equations.

- A. 2
- B. 12**
- C. 35
- D. 20

Question No:204 (Marks:1) **Vu-Topper RM**

The cost coefficient of artificial variable in objective function is .

- A. 0
- B. 1
- C. 2
- D. M**

Question No:205 (Marks:1) **Vu-Topper RM**

About which of the following it is true that, “they only signify with the passage of time, the beginning and ending of some activities under no consumption of resources” ?

- A. Project
- B. Nodes
- C. Dummy**
- D. Branch

Question No:206 (Marks:1) **Vu-Topper RM**

In a Project Management, if the Critical activities of a network are delayed then -----.

- A. Project finish time will have to extend

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- B. Project cost will increase
- C. More resources have to employed
- D. All above choices are equivalent**

Question No:207

(Marks:1)

Vu-Topper RM

Which of the following is the major assumed difference between the models of Purchasing and Manufacturing without shortage?

- A. Replacement rate**
- B. Shortage
- C. Demand
- D. Item, Setup and Holding Costs

Question No:208

(Marks:1)

Vu-Topper RM

The draw back of the Graphical method to solve a LP is that the problem of -----can not be handled by this.

- A. Higher dimension($n > 2$)
- B. Low dimension($n < 3$)**
- C. Duality
- D. Degeneracy

Question No:209

(Marks:1)

Vu-Topper RM

In resource leveling when two or more jobs complete for some resource first try to allocate on activity which is of _____ duration end next to the activity which having next _____ duration.

- A. Most likely, pessimistic**
- B. Minimum, maximum
- C. Maximum, Minimum
- D. Optimistic most likely

Question No:210

(Marks:1)

Vu-Topper RM

Which of the following would be the objective of the efficiency of a certain air conditioning system depending upon temperature 'x', pressure 'y', moisture 'w' and cross-sectional area of outlet 'u'?

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A. Minimization

B. Inflection

C. Average

D. Maximization

Question No:211

(Marks:1)

Vu-Topper RM

For a development project, if its standard deviation of project length = 8, expected and scheduled duration of the complete project are 50 and 45 days respectively, then which of the following will be the Standard Normal Variable of the project?

A. -1.7677

B. -0.625

C. 0.625

D. 1.7677

Question No:212

(Marks:1)

Vu-Topper RM

A/An ___ is the collection of inter related activities in particular sequence to completion

A. Node

B. Event

C. Project

D. Branch

Question No:213

(Marks:1)

Vu-Topper RM

For a development project, if its Standard Normal variable = 1.38, expected and the schedule durations of the project are 100 and 110 days respectively, then the Standard Deviation in the project length is ___

A. 7.246

B. -7.246

C. -52.50

D. 52.50

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Question No:214

(Marks:1)

Vu-Topper RM

If for path 1-3-4 time is $5+3=8$, for path 1-2-3-4 time is $6+7+3=16$ days and for path 1-2-4 time is $6+6 = 12$ days, then which of the following is true

- A. 1-3-4 is critical path
- B. 1-2-4 is critical path
- C. 1-2-3-4 is critical path**
- D. 1-4 is critical path

Question No:215

(Marks:1)

Vu-Topper RM

In Project Management, Program Evaluation and Review Technique (PERT) is based on ----- times.

- A. Deterministic
- B. Probabilistic**
- C. Stochastic
- D. Serial

Question No:216

(Marks:1)

Vu-Topper RM

Which of the following phases are performed to find the critical path in CPM?

- A. Forward and Backward (Early and Late finish program)**
- B. Program Evaluation and Review
- C. Resource Scheduling and Allocation
- D. Precedence and succession

Question No:217

(Marks:1)

Vu-Topper RM

Which of the following value is correct for the expected time of an activity having optimistic, pessimistic and most likely times as 4, 8 and 6 days respectively?

- A. 6.66 days
- B. 9.33 days
- C. 6 days**
- D. 4.66 days

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Question No:218

(Marks:1)

Vu-Topper RM

Which of the following is the objective of Project Management by using PERT and CPM methods, for any project subject to resource constraints?

- A. To minimize the project time
- B. To maximize the total project profit
- C. To minimize the total project cost**
- D. To minimize the resource constraints

Question No:219

(Marks:1)

Vu-Topper RM

In PERT, the possible variation in activity times can be measured from ----- of the corresponding Beta Distribution.

- A. Variance
- B. Mean
- C. Expected Time
- D. Standard Deviation**

Question No:220

(Marks:1)

Vu-Topper RM

In a network flow diagram, for an activity (i, j) of duration of three days, if its earliest start time is of two days then which of the following will be its early finish time?

- A. Six days
- B. One day
- C. Five days**
- D. One and half day

Question No:221

(Marks:1)

Vu-Topper RM

In a network flow diagram, the precedence relationship among the activities are indicated through -----.

- A. Project
- B. Branch
- C. Dummy**
- D. Nodes

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Question No:222

(Marks:1)

Vu-Topper RM

In a development project, if an activity (i,j) of six days duration, starts late on 3rd day then which of the following will be its latest finish time?

A. 9th day

B. 2nd day

C. 3rd day

D. 18th day

Question No:223

(Marks:1)

Vu-Topper RM

Which of the following Probabilistic time in PERT has the same analogical meaning of Deterministic time (time to complete any activity) in CPM?

A. Expected

B. Optimistic

C. Pessimistic

D. Most Likely

Question No:224

(Marks:1)

Vu-Topper RM

While solving a network flow problem by PERT, which of the following type of time will be used to measure the length of Critical Path?

A. Pessimistic

B. Expected

C. Most Likely

D. Optimistic

Question No:225

(Marks:1)

Vu-Topper RM

In a project, a network diagram shows the precedence relations of inter related activities along with their corresponding activity -----.

A. Times

B. Cost

C. Profit

D. Quantity

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Question No:226

(Marks:1)

Vu-Topper RM

Which of the following relation is true among the probabilistic times in PERT?

- A. Most Likely < Optimistic < Pessimistic
- B. Optimistic < Most Likely < Pessimistic**
- C. Most Likely < Pessimistic < Optimistic Pessimistic
- D. < Most Likely < Optimistic

Question No:227

(Marks:1)

Vu-Topper RM

In the phase of Early Start and Early Finish, to find the Critical Path in a network flow diagram, for the first node(event), we start with time -----
-----.

- A. $t = \text{infinity}$
- B. $t = 0$
- C. $t = a$ (arbitrary)
- D. With strict positive value**

Question No:228

(Marks:1)

Vu-Topper RM

In a network flow diagram, if two jobs 'a(l,n)' and 'b(m,n)' of '7' and '8' days durations respectively, start earlier simultaneously on 4th day, then the next activity containing 'n' as head event can't start until the entering activity ----- is completed.

- A. (m,n)
- B. (l,n)**
- C. (m,l)
- D. (l,m)

Question No:229

(Marks:1)

Vu-Topper RM

Which of the following correspond to the practical limitation of available resource while modeling a real-life situation into a linear program?

- A. Constraints**
- B. Objective function

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- C. Linear function
- D. Decision variables

Question No:230

(Marks:1)

Vu-Topper RM

In the graph of the purchasing model with shortages the area under the horizontal axis represents _ .

- A. Set up cost of item
- B. Purchase cost of item
- C. Carrying cost of item
- D. Shortage cost of item**

Question No:231

(Marks:1)

Vu-Topper RM

The straight line associated with the constraints $2x+3y<12$ will meet x-axis at a distance of_ units from origin.

- A. 2
- B. 4
- C. 6**
- D. 3

Question No:232

(Marks:1)

Vu-Topper RM

In a network flow a diagram for an activity(I,j) of duration of three days if its earliest start time is of two days then which of the following will be its early finish time?

- A. One and half day
- B. One day
- C. Six days
- D. Five days**

Question No:233

(Marks:1)

Vu-Topper RM

In a development project. If an activity (m,n) of seven days duration starts late on 5rd day then which of the following will be its latest finish time?

- A. 7th day

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B. 5th or 7th day

C. 12th day

D. 5th day

Question No:234

(Marks:1)

Vu-Topper RM

Which of the following is an intermediate step to model a linear programming problem?

A. Identify the objective function.

B. Identify the non-negative restrictions and constraints

C. Identify the unknown decision variables

D. None of the these

Question No:235

(Marks:1)

Vu-Topper RM

Which of the following is an operation research (OR) process?

A. Simplex method

B. Linear programming

C. Observation

D. Networking

Question No:236

(Marks:1)

Vu-Topper RM

In the purchasing Model with shortages the cost function $C(S,Q)$ can also be expressed as function of .

A. (S, D)

B. (Q, D)

C. (S, T)

D. (T, D)

Question No:237

(Marks:1)

Vu-Topper RM

Which one of the following is not an operations research problem solving steps?

A. Observation

B. Definition of the problems

C. Variable selections

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D. Model construction

Question No:238

(Marks:1)

Vu-Topper RM

In the Dynamic order Quantity if the ratio of setup and carrying costs is 500 and the demands of 2nd and 3rd months are 50 and 130 respectively then which of the following is true about the 2nd months requirement?

A. 2nd month demand can be included in 1st month

B. 2nd month demand can be included in 3rd month

C. 2nd month demand can be included in any month of the year

D. 2nd month demand will have to fulfill in 2nd month

Question No:239

(Marks:1)

Vu-Topper RM

In CPM each activity has one deterministic time while in PERT each activity has -----probabilistic time/times.

A. Three

B. Also, one

C. Two

D. No

Question No:240

(Marks:1)

Vu-Topper RM

In the phase of early start and early finish to find the critical path in a network flow diagram the computation are proceeded from_ to the final event.

A. Left to right

B. Bottom to top

C. Top to bottom

D. Right to left

Question No:241

(Marks:1)

Vu-Topper RM

In a development project, if an activity(I,j) of six days duration starts late on 3rd day then which of the following will be its latest finish time?

A. 18th day

B. 9th day

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- C. 3rd day
- D. 2nd day

Question No:242

(Marks:1)

Vu-Topper RM

If the annual demand of a product is 10000 items, and its set up and inventory costs are 200 and 100 respectively then its economic order quantity is provided that shortage is fulfilled INSTANTANEOUSLY.

- A. 200units**
- B. 20000units
- C. 40000units
- D. 100 units

Question No:243

(Marks:1)

Vu-Topper RM

For a LP problem say, $Max.z=x+y$, under the constraints $xy \geq 0$ the feasible region would be .

- A. All the first quadrant**
- B. All xy-plane
- C. Empty
- D. Point (0,0)

Question No:244

(Marks:1)

Vu-Topper RM

By which of the following method any complex linear programming problem can be handled?

- A. Degenerate method
- B. Graphical method
- C. Simplex method**
- D. Dual method

Question No:245

(Marks:1)

Vu-Topper RM

In the phase of Early start and early finish to find the critical path in a network flow diagram flow diagram, for the first node(event) we start will time.

With strict positive value

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A. T=0

B. $T=a$ (arbitrary)

C. $T=\infty$

D. None of the above

Question No:246

(Marks:1)

Vu-Topper RM

Which of the following event has no immediate predecessor in any network flow diagram?

A. Critical Event

B. Head Event

C. Tail Event

D. Non_critical event

Question No:247

(Marks:1)

Vu-Topper RM

While applying Simplex method to a LP of minimization type, we proceed stepwise from one__ solution to another in such away that the objective function always increase its value.

A. Optimal

B. Non-basic feasible

C. Basic feasible

D. Degenerate

Question No:248

(Marks:1)

Vu-Topper RM

Critical path in a network flow diagram_____.

A. Is unique

B. May at most two

C. Depends on number of dummies

D. May be multiply

Question No:249

(Marks:1)

Vu-Topper RM

In the dynamic order quantity problem, the demands of all succeeding months can be included in the demand of preceding one provide that.

A. Item and holding costs are balanced

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- B. Shortage and setup costs are balanced
- C. Setup and holding costs are balanced
- D. Shortage and item costs are balanced**

Question No:250

(Marks:1)

Vu-Topper RM

If for path 1-3-4 times is 5+3-8 days for path 1-2-3-4 time is 6+7+3-16 days and for path 1-2-4 time is 6+6-12 days then which of the followings id ture.

- A. 1-3-4 is critical path
- B. 1-2-4 is critical path
- C. 1-2-3-4 is critical path
- D. 1-4 is critical path**

Question No:251

(Marks:1)

Vu-Topper RM

In which of the following model the carrying cost per unit of time is reduced in the ratio $(1-D/R):1$?

- A. Purchasing model without shortage
- B. Manufacturing model without shortage
- C. Purchasing model with allowed shortage**
- D. Manufacturing Model with allowed shortage

Question No:252

(Marks:1)

Vu-Topper RM

In pert the possible variation in activity can be measured from-----of the corresponding beta distribution.

- A. Variance
- B. Mean
- C. Expected time**
- D. Standard deviation

Question No:253

(Marks:1)

Vu-Topper RM

Which of the following is not a categories of the operation research (OR) techniques?

- A. Linear mathematical programming technique

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B. Feasible solution

- C. Inventory techniques
- D. Networking techniques

Question No:254

(Marks:1)

Vu-Topper RM

In a project management if the critical activities of a network are delayed then

A. Project finish time have to extend

- B. Project cost will increase
- C. More resource has to employed
- D. All above choices are equivalent

Question No:255

(Marks:1)

Vu-Topper RM

EST and EFT of activities are calculated in

A. Forward pass

- B. Backward pass
- C. None of the above
- D. Path does not affect

Question No:256

(Marks:1)

Vu-Topper RM

_____ may be less than most likely time estimate

A. Pessimistic time estimate

- B. Smallest time estimate
- C. Optimistic Time estimate
- D. None of the above

Question No:257

(Marks:1)

Vu-Topper RM

If an activity consumes no time and no resources then this activity is called

A. Dummy activity

- B. Sequential activity
- C. Critical activity
- D. Cyclic activity

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Question No:258

(Marks:1)

Vu-Topper RM

The following network is an example of

- A. Redundancy
- B. Dangling
- C. Cycling**
- D. Dummy

Question No:259

(Marks:1)

Vu-Topper RM

Which one is best describe Micro Economic Planning?

- A. Distribution of fertilizer
- B. Improving the layout of a workshop in a company**
- C. Investment planning of the country
- D. PERT

Question No:260

(Marks:1)

Vu-Topper RM

If $t_0 = 6$, $t_m = 12$ and $t_p = 18$, then $V_t =$

- A. 12
- B. 22
- C. 4**
- D. 144

Question No:261

(Marks:1)

Vu-Topper RM

Which inventory model also known as a saw tooth model?

- A. Purchasing Model with no shortages**
- B. Purchasing Model with shortages
- C. Manufacturing Model with no shortages
- D. None of the above

Question No:262

(Marks:1)

Vu-Topper RM

Manufacturing Model with shortages 61- For backward pass computations.

- A. Earliest start time Latest start time

B. Earliest start time Latest start time

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- C. Earliest start time Latest start time = 0
D. Earliest start time Latest start time

Question No:263 (Marks:1) **Vu-Topper RM**

For an activity if optimistic time, most likely time estimate and pessimistic time estimate are 3, 6 and 15 respectively then expected time is

- A. 4
B. 3
C. 7
D. 20

Question No:264 (Marks:1) **Vu-Topper RM**

In a quadratic programming problem unlike linear programming problem.

- A. Only objective function is quadratic
B. Both objective function and constraints are quadratic
C. Only constraints are quadratic
D. At least one of objective function or constraint must be quadratic

Question No:265 (Marks:1) **Vu-Topper RM**

A forward pass is used to determine and calculate the----dates,---through utilization of a previously specified start date.

- A. Early start and early finish**
B. Late start and early finish
C. Early start and late finish
D. Late start and late finish

Question No:266 (Marks:1) **Vu-Topper RM**

Total cost per period = Item cost + Order cost + Holding cost + .

- A. Shortage cost**
B. None of the above

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- C. Optimum Shortage (S^*)
- D. Economic Order Quantity. (Q^*)

Question No:267

(Marks:1)

Vu-Topper RM

Maximum Inventory. ($I_{max.}$) $69- K= Z \times (_ _)$

Where K is called service factor

- A. $\sqrt{\pi/2}$**
- B. $\sqrt{2/\pi}$
- C. $\sqrt{2\pi/3}$
- D. $\sqrt{3\pi/2}$

Question No:268

(Marks:1)

Vu-Topper RM

Employs a different modeling and solution logic than linear programming

- A. Transportation Model
- B. Inventory Control Model
- C. Dynamic Programming**
- D. None of above

Question No:269

(Marks:1)

Vu-Topper RM

Critical path is obtained by connecting the jobs having

- A. Activities having same EST and LST
- B. Activities having same EFT and LFT
- C. Activities having zero slack
- D. All of the above**

Question No:270

(Marks:1)

Vu-Topper RM

In LP problems Additively means that

- A. The effect of two different programs of production is the same as that of a joint program**
- B. The doubling (or tripling) the product will exactly double (or triple) the profit and the required resource.
- C. Both (a)& (b)

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D. None of the

Question No:271

(Marks:1)

Vu-Topper RM

Two of the first steps of OR process encompass the actual use of OR techniques. These steps are

A. Model Construction and Model Solution

B. Observation and Implementation

C. None of the above

D. Definition of the problem and Model Solution

Question No:272

(Marks:1)

Vu-Topper RM

Model Solution and Implementation of results

Let FS = Free Slack, TS = Total Slack, INDS = Independent Slack, then which relation is true

A. $TS \leq FS$

B. $INDS \leq FS$

C. $FS \leq TS$

D. Both (b) & (c)

Question No:273

(Marks:1)

Vu-Topper RM

Standard Deviation S.D is

A. One sixth of the difference between pessimistic time estimates and optimistic time estimates

B. One sixth of the difference between pessimistic time estimates and most likely time estimates

C. One sixth of the difference between optimistic time estimates and most likely time estimates

D. One sixth of the difference between most likely time estimates and optimistic time estimates

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Question No:274

(Marks:1)

Vu-Topper RM

If both jobs 'a(l,n)' and 'b(m,n)' of '7' and '8' days durations respectively, start earlier simultaneously on 4th day, then 'n' can start earlier on -----day.

A. 8th

B. 11th

C. 15th

D. 12th

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