Question # 24 of 40 (Start time: 05:27:11 AM, 11 July 2020) **Total Marks:** 1

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.

Select the correct option

- 02
- 2.50
- 0.50
- 1.50

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Click to Save Answer & Move to Next Question

Question # 40 of 40 (Start time: 05:47:08 AM, 11 July 2020) **Total Marks:** 1

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

Select the correct option

- Setup Cost
- Carrying Cost
- Item Cost
- Demand

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Click to Save Answer & Move to Next Question

Question # 39 of 40 (Start time: 05:45:49 AM, 11 July 2020) **Total Marks:** 1

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'?

Select the correct option

- ■ Maximization
- ○ Minimization
- ○ Inflection
- ○ Average

Youtube: Info Demon

Click to Save Answer & Move to Next Question

Question # 38 of 40 (Start time: 05:44:38 AM, 11 July 2020) **Total Marks:** 1

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

Select the correct option

- ○ observation
- ○ definition of the problems
- ■ variable selections
- ○ model construction

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Click to Save Answer & Move to Next Question

Question # 36 of 40 (Start time: 05:43:02 AM, 11 July 2020) **Total Marks: 1**

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 requirment?

Select the correct option

- 2nd month demand can be included in 1st month
- 2nd month demand will have to fulfill in 2nd month
- (●) 2nd month demand can be included in 3rd month
- 2nd month demand can be included in any month of the year

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Question # 35 of 40 (Start time: 05:41:48 AM, 11 July 2020) **Total Marks:** 1

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

Select the correct option

- (●) Objective function
- ( ) Constraints
- ( ) Decision variables
- ( ) Linear function

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Question # 35 of 40 (Start time: 05:41:48 AM, 11 July 2020) **Total Marks:** 1

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

Select the correct option

- Objective function
- Constraints
- Decision variables
- Linear function

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Click to Save Answer & Move to Next Question

Question # 34 of 40 (Start time: 05:40:35 AM, 11 July 2020) **Total Marks:** 1

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?

Select the correct option

- ○ Rs.400
- ○ Rs. 10025
- ○ Rs.9975
- ■ Rs. 250000

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Click to Save Answer & Move to Next Question

Question # 33 of 40 (Start time: 05:39:29 AM. 11 July 2020) **Total Marks:** 1

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

Select the correct option

- (●) Maximization
- ( ) Minimization
- ( ) Inflection
- ( ) Average

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Question # 32 of 40 (Start time: 05:38:00 AM, 11 July 2020) **Total Marks: 1**

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?

Select the correct option

- -1.7677
- -0.625
- 0.625
- 1.7677

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Question # 31 of 40 (Start time: 05:36:56 AM, 11 July 2020) Total Marks: 1

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

Select the correct option

- Latest start time, Latest finish time, Earliest start time, Earliest finish time
- Latest start time, Latest finish time, Earliest start time, CPM
- Latest start time, Latest finish time, PERT, Earliest finish time
- PERT, CPM

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Click to Save Answer & Move to Next Question

Question # 30 of 40 (Start time: 05:35:30 AM, 11 July 2020) **Total Marks: 1**

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 _____.

Select the correct option

- (●) -7.246
- ( ) -52.50
- ( ) 52.50
- ( ) 7.246

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Question # 29 of 40 (Start time: 05:34:13 AM, 11 July 2020) **Total Marks:** 1

While applying Simplex method to a LP of minimization type, we proceed stepwise from one ———solution to another in such a way that the objective function always increases its value.

Select the correct option

- ○ optimal
- ○ non-basic feasible
- ■ basic feasible
- ○ degenerate

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Click to Save Answer & Move to Next Question

Question # 28 of 40 (Start time: 05:32:44 AM, 11 July 2020) **Total Marks: 1**

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

Select the correct option

- Negative
- Positive

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Question # 27 of 40 (Start time: 05:31:18 AM, 11 July 2020) **Total Marks: 1**

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 ———.

Select the correct option

- t = infinity
- t = 0
- t = a (arbitrary)
- with strict positive value

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Click to Save Answer & Move to Next Question

Question # 25 of 40 (Start time: 05:29:51 AM, 11 July 2020) Total Marks: 1

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

Select the correct option

- Analytical
- Probabilistic
- Iterative
- Pure algebraic

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Click to Save Answer & Move to Next Question

Question # 25 of 40 (Start time: 05:28:23 AM, 11 July 2020) **Total Marks:** 1

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?

Select the correct option

- ○ 7th
- ○ 8th
- ● 9th
- ○ 6th

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Question # 23 of 40 (Start time: 05:25:47 AM, 11 July 2020) **Total Marks: 1**

A Critical Path in a network flow diagram ——.

Select the correct option

- ○ is unique
- ● may at most two
- ○ depends on number of dummies
- ○ may be multiple

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Question # 23 of 40 (Start time: 05:25:47 AM, 11 July 2020) **Total Marks:** 1

A Critical Path in a network flow diagram ——.

Select the correct option

- is unique
- may at most two
- depends on number of dummies
- may be multiple

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Question # 20 of 40 (Start time: 05:21:52 AM, 11 July 2020) **Total Marks: 1**

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

Select the correct option

- ○ Item and Holding Costs are balanced
- ○ Shortage and Setup Costs are balanced
- ○ Setup and Holding Costs are balanced
- ● Shortage and Item Costs are balanced

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Question # 19 of 40 (Start time: 05:20:20 AM, 11 July 2020) **Total Marks:** 1

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?

Select the correct option

- Six days
- One day
- One and half day
- Five days

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Question # 18 of 40 (Start time: 05:19:09 AM, 11 July 2020) **Total Marks:** 1

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?

Select the correct option

- Deterministic
- Additivity
- Proportionality
- Divisibility

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Question # 17 of 40 (Start time: 05:17:42 AM, 11 July 2020) **Total Marks: 1**

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

Select the correct option

- shortest time
- longest time
- latest start time
- quick time

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Question # 16 of 40 (Start time: 05:16:51 AM, 11 July 2020) **Total Marks:** 1

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

Select the correct option

- set up cost of item
- shortage cost of item
- purchase cost of item
- carrying cost of item

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Question # 15 of 40 (Start time: 05:15:22 AM, 11 July 2020) **Total Marks:** 1

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

Select the correct option

- ○ cost value
- ■ demand value
- ○ turn over value
- ○ mark up value

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Click to Save Answer & Move to Next Question

Question # 14 of 40 (Start time: 05:13:50 AM, 11 July 2020) **Total Marks:** 1

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.

Select the correct option

- ○ 1-3-4 is critical path
- ○ 1-2-4 is critical path
- ○ 1-2-3-4 is critical path
- ● 1-4 is critical path

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Question # 13 of 40 (Start time: 05:12:41 AM, 11 July 2020) **Total Marks:** 1

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

Select the correct option

- If least Objective function is non-linear
- If both Objective function and constraints are non-linear

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Question # 12 of 40 (Start time: 05:11:12 AM, 11 July 2020) **Total Marks:** 1

In which of the following model, the Carrying Cost per unit of time is reduced in the ratio (1-D/R):1 ?

Select the correct option

- ○ Purchasing Model without Shortage
- ○ Manufacturing Model without Shortage
- ● Purchasing Model with allowed Shortage
- ○ Manufacturing Model with allowed Shortage

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Question # 10 of 40 (Start time: 05:08:22 AM, 11 July 2020) **Total Marks:** 1

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

Select the correct option

- Programme Evaluation and Review Technique
- Critical Path Method

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Question # 11 of 40 (Start time: 05:09:50 AM, 11 July 2020) **Total Marks: 1**

Which of the following property assures the contribution of all variables in the Objective function and their requirements in constraints?

Select the correct option

- Deterministic
- Additivity
- Divisibility
- Proportionality

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Click to Save Answer & Move to Next Question

Question # 9 of 40 (Start time: 05:06:52 AM, 11 July 2020) **Total Marks:** 1

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.

Select the correct option

- (●) most likely, pessimistic
- ( ) minimum , maximum
- ( ) maximum, minimum
- ( ) optimistic, most likely

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Question # 10 of 40 (Start time: 05:08:22 AM, 11 July 2020) **Total Marks: 1**

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

Select the correct option

- Programme Evaluation and Review Technique
- Critical Path Method

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Question # 8 of 40 (Start time: 05:05:41 AM, 11 July 2020) **Total Marks:** 1

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

Select the correct option

- (●) a set of constraints
- ( ) unrestricted variables
- ( ) feasible region
- ( ) optimal solution

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Question # 7 of 40 (Start time: 05:04:16 AM, 11 July 2020) **Total Marks:** 1

Which of the following property must be satisfied by a Linear Programming Model?

Select the correct option

- [■] Sensitivity
- [ ] Negativity
- [ ] Additivity and Proportionality
- [ ] Probability

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Question # 6 of 40 (Start time: 05:02:56 AM, 11 July 2020) **Total Marks:** 1

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

Select the correct option

- (●) project finish time will have to extend
- ( ) project cost will increase
- ( ) more resources have to employed
- ( ) All above choices are equivalent

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Question # 5 of 40 (Start time: 05:01:53 AM, 11 July 2020) **Total Marks:** 1

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

Select the correct option

- ○ Linear mathematical programming technique
- ● Feasible solution
- ○ Inventory techniques
- ○ Network techniques

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Question # 4 of 40 (Start time: 05:00:27 AM, 11 July 2020) **Total Marks:** 1

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.

Select the correct option

- ○ Poisson
- ○ Chi
- ○ Binomial
- ■ Beta

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Click to Save Answer & Move to Next Question

Question # 3 of 40 (Start time: 04:58:59 AM, 11 July 2020) **Total Marks:** 1

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

Select the correct option

- ○ Variance
- ○ Mean
- ● Expected Time
- ○ Standard Deviation

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Click to Save Answer & Move to Next Question

Question # 2 of 40 (Start time: 04:57:28 AM, 11 July 2020) **Total Marks: 1**

If weights are 1, 4 and 7 or optimistic, most likely and pessimistic time estimates, respectively, then select the most suitable answer.

Select the correct option

Reload Math Equations

- $t_e = \frac{t_o + 4t_m + t_p}{6}$
- $t_e = 4$
- $S_t = 2$
- $V_t = 4$

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Click to Save Answer & Move to Next Question

Question # 1 of 40 (Start time: 04:55:57 AM, 11 July 2020) **Total Marks:** 1

For a LP say; Min z = x+y under the constraints x,y>=0, the optimal solution would be——.

Select the correct option

- ○ empty set
- ○ all xy-plane
- ● all the first quadrant
- ○ point(0,0)

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