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MTH601 Operations Research

BC080400742 (ASIFA IQBAL)

Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

A firm has normally distributed forecast of usage with $MAD = 50$ units. It desires a service level, which limits the stock, out to one order cycle per year. Determine Standard Deviation (S. D), if the order quantity is normally a week's supply.

Answer (Please click here to Add Answer)

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MTH601 Operations Research

BC080400742 (ASIFA IQBAL)

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

A company centre has got four expert programmers. The centre needs four application programmes to be developed. The head of the computer centre, after studying carefully the programme's to be developed, estimate the computer time in minutes required by the respective experts to develop the application programmes as follows.

Programmers	A	B	C	D

Answer (Please click here to Add Answer)

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Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

1	120	100	80	90
2	80	90	110	70
2	110	140	120	100

Answer (Please click here to Add Answer)

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MTH601 Operations Research

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Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

3	110	140	120	100
4	90	90	80	90

Answer (Please click here to Add Answer)

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MTH601 Operations Research

BC080400742 (ASIFA IQBAL)

Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

The cost of a new machine is Rs. 5000. The maintenance cost during the n th year is given by $M_n = \text{Rs. } 500 (n - 1)$, where $n = 1, 2, 3, \dots$. If the discount rate per year is 0.05, determine discount factor (v^{n-1}) for each year.

Answer (Please click here to Add Answer)

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MTH601 Operations Research

BC080400742 (ASIFA IQBAL)

Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

Determine whether the following Transportation model has initial feasible solution?

	D_1	D_2	D_3	D_4	Supply
O_1	x_{11}	x_{12}	x_{13}	x_{14}	6

Answer (Please click here to Add Answer)

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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

	D_1	D_2	D_3	D_4	Supply
O_1	x_{11}	x_{12}	x_{13}	x_{14}	6
O_2	x_{21}	x_{22}	x_{23}	x_{24}	8
O_3	x_{31}	x_{32}	x_{33}	x_{34}	10
Demand	4	6	8	6	

Answer (Please click here to Add Answer)

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Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

Salesman	Region					
	1	2	3	4	5	6
A	5	0	25	0	15	0
B	0	50	0	25	30	45
C	35	15	55	0	40	75
D	10	30	5	30	15	0

Answer ([Please click here to Add Answer](#))

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Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

C	35	15	55	0	40	75
D	10	30	5	30	15	0
E	25	0	30	55	20	30
F	35	35	20	10	0	55

Do next step by applying Hungarian method.

Answer ([Please click here to Add Answer](#))

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MTH601 Operations Research

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Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

An oil company has 8 unit of money available for exploration of three sites. If oil is present at a site, the probability of finding it depends upon the amount allocated for exploiting the site as given below:

	0	1	2	3	4	5	6	7	8
Site I	0.0	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0
Site II	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.0

Answer ([Please click here to Add Answer](#))

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Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Site I	0.0	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0
Site II	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	1.0
Site III	0.0	0.1	0.1	0.2	0.3	0.5	0.8	0.9	1.0

Answer (Please click here to Add Answer)

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Question No : 46 of 52

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The probability that the oil exits at sites I, II and III is 0.4, 0.5 and 0.2 respectively; we have to find the optimal allocating of money. Stage I is given below; **only do stage II.**

Stage I

$$\text{Max. } Z = 0.4P_1(x_1) + 0.3 P_2(x_2)$$

Subject to:

$$x_1 + x_2 + x_3 \leq 8$$

Answer ([Please click here to Add Answer](#))

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Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

No. of boxes x_i	0	1	2	3	4	5	6	7	8
$f_i(x_i)$	0	0	4	8	12	20	28	36	40

Answer (Please click here to Add Answer)

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MTH601 Operations Research

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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

A person wants to decide the constituents of a diet which will fulfill his daily requirements of protein, fats and carbohydrates at the minimum cost. The choice is to be made from four different types of foods. The yields per unit of these foods are given in the table below:

Food type	Yield per unit			Cost per Unit (Rs.)
	Proteins	Fats	Carbohydrates	
1	3	2	6	45

Answer ([Please click here to Add Answer](#))

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