MBHC-1.4

Sl.No. : **Total No. of Pages : 2**

First Semester M.B.A. Degree Examination, June - 2025
(SLM Scheme) (CBCS)
MANAGEMENT
Statistics and Optimization Techniques

Time : 3 Hours **Max. Marks : 80**

SECTION - A

Answer any five questions. Each question carries five marks. [5 × 5 = 25]

Q1) What are different types of averages?

Q2) What is skewness? Explain.

Q3) Differentiate between co-relation & regression.

Q4) What is saddle point? Explain.

Q5) What are phases of OR?

Q6) Differentiate between PERT & CPM.

Q7) What are different types of bloats? Explain.

SECTION - B

Answer any four questions. Each question carries ten marks. [4 × 10 = 40]

Q8) Find out mean and standard deviation from the following :

Age	10	20	30	40	50	60	70	80
Death	15	30	53	75	100	110	115	125

Q9) Find the regression equation and the most likely marks in statistics when marks in economics is 30.

Marks in Eco	25	28	35	32	31	36	29	38	34	32
Mark in Statistics	43	46	49	41	36	32	31	30	33	38

Q10) In a certain examination mean of mark scored by 400 students in 45 with a standard deviation of 15. Assuming the distribution to be normal, Find :

a) The number of students scoring mark between 30 & 60.

b) The percentage of students scoring above 75.

Q11) Explain decision making under various circumstances.

Q12) Explain the principle of dominance and also the benefits of game theory.

Q13) Draw a network for the following activity and find critical path & different time estimates.

Activity	Duration
1 - 2	20
1 - 3	25
2 - 3	10
2 - 4	12
3 - 4	5
4 - 5	10

SECTION - C

Q14) **Case (Compulsory) :** **[1 × 15 = 15]**

The table below gives the diastolic blood pressure of 250 men. The readings are mode to the near sets value. Find mean, median & mode.

Blood Pressure	60	65	70	75	80	85	90	95
No. of Men	4	5	31	39	114	30	25	2

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