

Answer any FIVE questions
All questions carry equal marks

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1. a) Define normal distribution, mean, variance and standard deviation of a normal distribution.
b) In a normal distribution, 7% of the items are under 35 and 89% are under 63. Find the mean and standard deviation of the distribution. [8+8]

2. The following data enumerate the number of branches and the number of clusters. Calculate the correlation coefficient (r) and regression coefficient (b), and test their significance. [16]

No. of branches	6	7	8	9	10	11	12	13	14
No. of clusters	13	14	15	17	16	20	19	18	21

3. From the data given below find out whether the means of three samples differ significantly or not. [16]

Sample 1	Sample 2	Sample 3
20	19	13
10	13	12
17	17	10
17	12	15
16	9	5

4. a) Explain about latin square design (LSD).
b) Five varieties of wheat A, B, C, D and E were tried in an area of 90 feet \times 110 feet. The plan, the varieties shown in each plot, and yields obtained in kg are given in the following table. [16]

B 90	E 80	C 134	A 112	D 92
E 85	D 84	B 70	C 144	A 82
C 110	A 90	D 87	B 84	E 69
A 81	C 125	E 85	D 76	B 72
D 82	B 60	A 94	E 85	C 88

5. Define a computer and explain its different types. [16]
6. a) Define databases.
b) Explain the different data types of MS-Access. [4+12]
7. Write a program in C language to find if the number is Palindrome or not. [16]
8. Explain the advantages of computer validation and its techniques. [16]