

Model Question Paper-I (CBCS Scheme)

USN

Third Semester B.E Degree Examination

MATHEMATICS FOR CS ENGINEERING STREAM (BCS301)

TIME: 03 Hours

Max.Marks:100

Note: (i) Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.
(ii) Statistical tables and Mathematics Formula handbooks are allowed.

Module - I

			M	L	C
Q.01	a	A shipment of 8 similar microcomputers to a retail outlet contains 3 that are defective. If a school makes a random purchase of 2 of these computers, find the probability distribution for the number of defectives. Find the mean and variance of this distribution.	6	L2	CO1
	b	In a factory producing blades, the probability of any blade being defective is 0.002. If blades are supplied in packets of 10. Using Poisson distribution determine the number of packets containing i. No defective ii. One defective and iii. Two defective blades respectively in a consignment of 10000 packets	7	L2	CO1
	c	If the mileage (in thousands of miles) of a certain radial tyre is a random variable with exponential distribution with mean 40,000 miles. Determine the probability that the tyre will last i. At least 20,000 km ii. At most 30,000 km	7	L3	CO1

OR

Q.02	a	The density function of a random variable X is given by $f(x) = \begin{cases} k\sqrt{x}, & 0 < x < 1, \\ 0, & \text{elsewhere} \end{cases}$ i. Find k ii. Find the cdf $F(x)$ and use it to evaluate $P[0.3 < X < 0.6]$	6	L2	CO1
	b	Find the mean and variance of Binomial distribution.	7	L2	CO1

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Christian Drosten

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