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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 -1	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
		
		$f(x) = \begin{cases} k\sqrt{x}, & 0 < x < 1 \\ 0, & elsewhere \end{cases}$
		
		   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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M Mark

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3 Rd Sem Mathematics Civil Engineering Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**3 Rd Sem Mathematics Civil Engineering**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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