

Model Question Paper-II (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 -1								M	L	C																	
Q.01	a	A random variable X has the following probability function for various values of x						6	L2	CO1																	
	<table><tr><td>x</td><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr><tr><td>P(x)</td><td>0</td><td>K</td><td>2k</td><td>2k</td><td>3k</td><td>k²</td><td>2k²</td><td>7k² + k</td></tr></table>						x				0	1	2	3	4	5	6	7	P(x)	0	K	2k	2k	3k	k ²	2k ²	7k ² + k
	x	0	1	2	3	4	5				6	7															
P(x)	0	K	2k	2k	3k	k ²	2k ²	7k ² + k																			
(i) Find the value of k (ii) Evaluate $P[X < 6]$, $P[0 < X < 5]$, and $P[X \geq 6]$																											
	b	Find the mean and variance of Poisson distribution.						7	L2	CO1																	
	c	In a certain town the duration of a shower is exponentially distributed with mean 5 minutes. What is the probability that a shower will last for? (i) 10 minutes or more (ii) less than 10 minutes (iii) between 10 and 12 minutes.						7	L3	CO1																	
OR																											
Q.02	a	Determine the value k, so that the function $f(x) = k(x^2 + 4)$, for $x = 0, 1, 2, 3$ can serve as a probability distribution of the discrete random variable X: Also, find (i) $P[0 < X \leq 2]$ & (ii) $P[X \geq 1]$						6	L2	CO1																	
	b	Out of 800 families with 5 children each, how many would you expect to have (i) 3 boys (ii) At least one boy (iii) At most two boys, assuming equal probabilities for boys and girls.																									
	c	In a normal distribution, 31% of the items are under 45 and 8% are over 64. Find the mean and Variance of the distribution.																									
Module-2																											
Q.03	a	If the joint probability distribution of X and Y is given by $f(x, y) = \frac{x + y}{30}, \text{ for } x = 0, 1, 2, 3; y = 0, 1, 2$ Find (i) $P[X \leq 2, Y = 1]$, (ii) $P[X > 2, Y \leq 1]$ (iii) $P[X > Y]$						6	L2	CO2																	

Numerical Mathematics 3ed

S Ashworth



Numerical Mathematics 3ed:

Numerical Mathematics 3ed Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Numerical Mathematics 3ed**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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