



# ST JOSEPH ENGINEERING COLLEGE, MANGALURU

An Autonomous Institution

First Semester MCA Programme Examinations June-2022

USN:

21MCA105

Duration: 3 Hrs

Maximum Marks: 100

## DISCRETE MATHEMATICS AND STATISTICS

### Note:

1. Part-A is mandatory.
2. Answer any five full questions from Part-B choosing at least one from each module.
3. Use of normal distribution tables permitted.
4. Missing data may be suitably assumed.

### PART-A

Q.No.	Question	BL	CO	PO	Marks
1	Find the possible truth values of p, q, r if $p \rightarrow (q \wedge r)$ is false.	2	1	1,2	2
2	Write the contrapositive of the statement "if it rains then examination will be postponed".	2	1	1,2	2
3	Let $A = \{a, b, c\}$ then verify the relation $R = \{(a, a), (b, b), (c, c), (b, c), (c, b)\}$ is an equivalence relation or not.	1	3	1,2	2
4	Find the arithmetic mean $\bar{x}$ of 32, 23, 19, 37, 52.	2	4	1,2	2
5	If $(y-2, 2x+1) = (x-1, y+2)$ then find the x and y.	2	2	2,13	2
6	Write the normal equations for fitting a parabola.	2	4	1,2	2
7	Write the formula for mean and variance of exponential distribution.	3	5	1, 13	2
8	Write the formula for correlation coefficient and regression lines.	3	5	1,13	2
9	A graph contains 21 edges with 3 vertices of degree 4 and other vertices of degree 3. Find the no. of vertices in the graph.	2	6	1,2	2
10	Define chromatic number with an example.	2	6	1,2	2

### PART-B

#### Module-1

1	a) Using truth table show that $(q \rightarrow r) \leftrightarrow (p \wedge q) \rightarrow r$ b) Prove that $[(p \rightarrow q) \wedge (q \rightarrow r)] \rightarrow (p \rightarrow r)$ is a Tautology. c) Suppose the universe consists of all integers, consider the following open statements $p(x) : x \leq 3$ , $q(x) : x+1$ is odd, $r(x) : x > 0$ . Write down the truth values of the following. i) $P(2)$ ii) $\sim q(4)$ iii) $p(-1) \wedge q(1)$ iv) $\sim p(3) \vee r(0)$ v) $p(0) \rightarrow q(0)$ vi) $p(1) \leftrightarrow \sim q(2)$	3	1	1,2	5
		3	1	1,2	5
		3	1	1,2	6

OR

# Mca Model Question Paper

**Sebastian Brünink**



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