



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

Kathleen Armour



Mca Model Question Paper:

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the end of chapters in Physical Geology. Answers to the exercises are provided in Appendix 3. Exploring Geology 4th Edition by Reynolds Johnson Morin ... Exploring Geology 4th Edition by Reynolds Johnson Morin Carter ISBN Solution ... 2.0 Investigating Geologic Questions • 2.1 What Can We Observe in Landscapes? CRISC Review Manual 2014 by Isaca The CRISC Review Manual 2014 is a comprehensive reference guide designed to help individuals prepare for the CRISC exam and understand IT-related business ... CRISC Review Manual 2014 by Isaca (2014, Spiral) Diagnostic and Statistical Manual of Mental Disorders DSM-5-TR by American Psychiatric Association (2022, Trade Paperback) · \$38.00 New · \$34.99 Used ... CRISC Review Manual 2014 book by ISACA Security, Audit and Control Features SAP R/3: A Technical and Risk Management Reference Guide, 2nd Edition. ISACA. Out of Stock. CRISC Question, Answer and Explanation Manual 2014 ... Nov 15, 2013 — The CRISC Review Questions, Answers & Explanations Manual 2014 Supplement features of 100 new sample questions, answers and explanations to ... CRISC Question, Answer and Explanation Manual 2014 ... The CRISC Review Questions, Answers & Explanations Manual 2014 Supplement features of 100 new sample questions, answers and explanations to help candidates ... Crisc 2014 Manual Pdf Pdf Page 1. Crisc 2014 Manual Pdf Pdf. INTRODUCTION Crisc 2014 Manual Pdf Pdf (2023) CRISC REVIEW MANUAL 2014 By Isaca CRISC REVIEW MANUAL 2014 By Isaca ; Quantity. 1 available ; ISBN-10. 1604204273 ; Book Title. CRISC Review Manual 2014 ; Est. delivery. Mon, Nov 6 - Thu, Nov 9. Pre-Owned CRISC Review Manual 2014 (Paperback) ... Product details. CRISC Review Manual 2014 by Isaca. Title: CRISC Review Manual 2014; ISBN10: 1604204273; EAN: 9781604204278; Genre: TECHNOLOGY & ENGINEERING ... crisc CRISC REVIEW MANUAL 2014: Isaca. Stock Image. CRISC REVIEW MANUAL 2014. Isaca. ISBN 13: 9781604204278. Seller: marvin granlund. Emeryville, CA, U.S.A.. Seller ... CRISC Question, Answer and Explanation... book by ISACA Cover for "CRISC Question, Answer and Explanation Manual 2014 Supplement" ... CRISC Review Manual 2014. ISACA. from: \$31.69.