

MCA (SEM-I)
Discrete Mathematics
(OCT-16)

QP CODE : 510300

Duration 3 hours

Total 100 marks

- N.B: (1) Question No. 1 is compulsory.
 (2) Attempt any four out of remaining six questions.
 (3) Assume any necessary data but justify the same.
 (4) Figures to the right indicate marks.

1. a) (i) Obtain a disjunctive normal form of $P \vee (\neg P \rightarrow (Q \vee (Q \rightarrow \neg R)))$ [5]

(ii) Let $S = \{1, 2, 3, 4\}$ and $A = S \times S$. Define the following relation R on A .

$$(a, b)R(a', b') \text{ if and only if } \frac{a}{b} = \frac{a'}{b'}.$$

Show that R is an equivalence relation. Compute A/R . [5]

b) (i) Determine whether the set of real numbers with $a \cdot b = a + b + 2$ is a semigroup, a monoid or neither. If it is a monoid, specify the identity. If it is a semigroup or a monoid determine whether it is commutative. [5]

ii) The solution of the recurrence relation $C_0 a_n + C_1 a_{n-1} + C_2 a_{n-2} = f(n)$ is $4^n + 5^n + 6$. Given that $f(n) = 30$ for all n . Determine C_0, C_1, C_2 . [5]

2. a) (i) Use laws of logic to show the following equivalence. $(P \rightarrow Q) \wedge (R \rightarrow Q) = (P \vee R) \rightarrow Q$. [5]

ii) What is functionally complete set of connectives. Explain with two examples. [5]

b) Let $A = \{1, 2, 3, 5, 6, 10, 15, 30\}$ and R be relation defined by aRb if and only if "a divides b". Show that R is a partial order relation. Draw the Hasse diagram of (A, R) . [10]

3. a) (i) Using mathematical induction to prove that $3^n + 2n - 1$ is divisible by 4 for every positive integer n . [5]

ii) Show that the hypothesis "If you send me e-mail message, then I will finish writing the program", "If you do not send me an e-mail message, then I will go to sleep early" and "If I go to sleep early, then I will wake up feeling refreshed", leads to the conclusion "If I do not finish writing the program then I will wake up feeling refreshed". [5]

b) (i) Let the universe of discourse be $D = \{0, 1, 2, \dots, 9\}$. Let $Q(x, y)$ be the statement " $x + y = x \cdot y$ ". Determine the truth values of the following.

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Ram Babu



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