## PJ-582

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Max. Marks: 70

I Semester M.C.A. Examination, February - 2020 (CBCS Scheme)

#### COMPUTER SCIENCE

#### MCA - 104T : Discrete Mathematics

Time: 3 Hours

#### PART - A

Answer any five questions. Each question carries six marks.

5×6=30

- 1. (a) Suppose A, B  $\subseteq \mathbb{Z} \times \mathbb{Z}$  with  $A = \{(x, y) | y = 5x 1\}$ , B =  $\{(x, y) | 3x y = -7\}$ . 3+3 Find  $\overline{A \cup B}$ .
  - (b) For any set A, prove that A×φ=φ×A=φ-
- (a) Let A = {1, 2, 3, 4, 6, 8, 12}. On A, define the partial ordering relation R 3+3 by xRy if and only if x divides y. Draw the Hasse diagram for R.
  - (b) Let  $f, g : \mathbb{R} \to \mathbb{R}$ , are defined by f(x) = 3x + 7 and  $g(x) = x(x^3 1)$  for all  $x \in \mathbb{R}$ . Verify that f is one-one but g is not.
- 3. Use mathematical induction to prove that  $1^2+2^2+3^2+...+n^2=\frac{n(n+1)(2n+1)}{6}$ . 6 where neZ<sup>+</sup>.
- Prove that R→S is a valid conclusion from the premises P→(Q→S), ¬R v P.
   and Q.
- 5. A collection of 10 electric bulbs contain 3 defective ones.

2+2+2

- (i) In how many ways can a sample of 4 bulbs be selected ?
- (ii) In how many ways can a sample of four bulbs be selected which contain 2 good ones and 2 defective ones?
- (iii) In how many ways can the sample of 4 bulbs be selected so that either the sample contains 3 good ones and 1 defective ones or 1 good and 3 defective ones ?
- Show that the open interval (0, 1) is uncountable.
- Prove that every set of 37 positive integers contain at least two integers that 6 leave the same remainders upon division by 36.

P.T.O.

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