#### 1811000101020001 F.Y. B.C.A. (Sem – I) Examination December-2022 Mathematics

Seat No:

[Time: Three Hours]

[Max. Marks:70]



- (1) All questions are compulsory.
- (2) Figures to the right indicate marks of corresponding question.
- (3) Follow usual notations.
- (4) Use of non-programmable scientific calculator is allowed.
- Q.1 Answer the following:

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- 11 Define Infinite Set with illustration.
- 2] If A = (a, e, i, o, u) then find the number of sets in power set of A.
- 31 Define: One-One function.
- 4] If  $f: A \to B$ , where f(x) = 2x 1 and  $A = \{1, 2, 3, 4\}$  then find Ra
- 57 Define: Critical row.
- 6] Prove that p A c = c where p is the statement and c means contradiction.
- 7] Define: Principle of duality.
- S1 Write the dual statement of  $x \cdot (y z) = (x \cdot y) + (x \cdot z)$
- 9] Define Minor of an element.
- [10] Mention which type of matrix is  $A = \begin{bmatrix} 1 & 2 & 3 & 4 \end{bmatrix}$
- Q.2 (a) In usual notations prove that  $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$ .

  OR

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- (a) In usual notations prove that (A ∩ B)' = A' U B'
- (b) Attempt any two:

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- 1] In a society of 250 people, each person speaks either Gujarati or Hindi, 158 people speak Gujarati and 183 speak Hindi then find
  - the number of people who can speak both the languages.
  - (ii) the number of people who speak only Gujarati.
- 2] If  $A = \{1, 3, 4, 6\}$ ,  $B = \{2, 4, 5\}$  and  $C = \{3, 4, 5\}$  then verify that  $A \cap (B C) = (A \cap B) (A \cap C)$

3) If  $A = \{x: x \in N, x < 6\}$ ,  $B = \{x: x \in N, 3 < x < 9\}$  and  $C = \{1, 4, 5, 7\}$  the verify  $(A \cup B) \cap C = (A \cap C) \cup (B \cap C)$ 

4] If  $A = \{2, 3, 5, 6, 8\}$ ,  $B = \{1, 3, 5, 7, 9\}$  and  $U = \{1, 2, ..., 10\}$  find  $A \cup B$ ,  $A' \cup B'$ , A - B,  $B \times A$ .

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**Manish Soni** 

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