## .... (Sem. II) Examination

April / May - 2015

## BCA-203 : Discrete Mathematics

Time: 3 Hours]

[Total Marks: 70

- 1 Define the following terms with example: (a) 6
  - Power set 18
  - (ii) Universal set 19
  - (iii) Partitions set 59
  - (b) Attempt the followings: (any two) 12
    - Proov the De'Morgan's law for Union. 52
    - (ii) If  $A = \{2x/x \text{ is prime number } < 8\}$

$$B = \left\{ x \middle/ x^2 \le 4, x \in z \right\}$$

 $B = \left\{ \frac{x}{x^2} \le 4, x \in z \right\}$   $U \in \mathcal{I} : 2000, Sum$ 

$$C = \{-1, 1, 2, 3, 4\}$$

then find  $A\Delta B$ ,  $B\Delta C$ ,  $C\Delta A$ 

$$A-(B\Delta C)$$
 and  $B-(C\Delta A)$ 

[Contd...





