BVM College of Management Education, Gwalior Question Bank

3 BCA 4

Elementary Mathematics

- Q. Attempt Short Notes Question:
 - 1 What do you mean by the set? Explain its types with example.
 - 2 What do you mean by the union & Intersection? Explain with example
 - 3 What do you mean by the Symmetric Difference? Explain with example
 - 4. What do you mean by the Cartesian Product ? Explain with example.
 - Q.1 If $U=\{2,4,......16\}$, $A=\{2,6,8,10\}$ and $B=\{4,6,10,14\}$ then find out the following set $(U-A)\cap (U-B)$
- Q.2 Prove the following

$$(A-C) \cap (B-C)=(A \cap B)-C$$

Q.3 Which of following check sets are disjoint or not

$$A=\{x,x=2n,n\in N\} \& B=\{x,x=2n-1,n\in N\}$$

Q.4 if $A=\{1,3,5\}$ & $B=\{2,4,6\}$

Find the value of AXB & A-B

- Q.5 In a group of 1000 people there 750 who speaks hindi and 400 ther who can speak Bengali. How many can speak Hindi only? How may can speak Bengali only. How many can speak both Hindi and Bengali.
- Q.6 if 63% of persion like oraganes where 76% like apples. Find the percentage of person who like both oranges and apples
- Q.7 Prove the following

$$(A\Delta B)\Delta C = A\Delta (B\Delta C)$$

Q.8 if $U=\{1,2,3,4,5,6,7,8,9,10\}$

Check (AUB)'=A'∩B'