**N.M.S.SERMATHAI VASAN COLLEGE FOR WOMEN - MADURAI-12**

**I-INTERNAL EXAM – BUSINESS MATHEMATICS – CCRJC34**

**CLASS:II B.COM Date: Time: 1 hour Max Marks:20**

**PART-A ANSWER ALL THE QUESTIONS (5\*1 = 5)**

1. The numbers 1,2,3,…… used for counting are called \_\_\_\_\_\_\_\_\_\_. A) Real number B) Natural number C) Whole number.
2. The set is not closed with respect to “ division” operation \_\_\_\_\_\_\_\_\_. A) integer B) not integer C) real number.
3. Let A = {2,3,5,7} and B ={x/x is a one digit prime} A) AB B) B⊂A C) A≠ B D) A=B
4. A Void set has \_\_\_\_\_\_\_\_\_\_. A) one element B) two element C) three element D) no element
5. (AUB)ՈC = \_\_\_\_\_\_\_\_. A) ( AՈC) U(BՈC) B) AU(BՈC) C)AՈBՈC

**PART-B ANSWER ANY ONE QUESTION (1\*5 = 5)**

6. Solve Simultaneous linear equation with three unknowns.

2x+3y-4z =1,3x-y-2z =4, 4x-7y-6z = -7.

7.Using Venn – Diagram. Prove that, (AUB) ՈC = ( AՈC) U(BՈC)

**PART-C ANSWER ANY ONE QUESTION (1\*10 = 10)**

8. Explain Numbers System.

9. State and prove De- Morgan’s law for three sets. If A ={ 1,2,3,4} B ={ 1,3} C={ 1,2,3}.