



**Biyani Girls College**  
**First mid Term Examination 2024-25**  
**BCA IV Sem.**

**Subject- Mathematics & Statistics (BCA-64T-215)**

**Time: 1.5 Hrs.**

**MM: 50**

**[I] Very short answer questions.**

**(5 \* 2 = 10)**

1. What do you mean by partially ordered relation?
2.  $A = \{ 1,2,3,4,5 \}$  find total no of non-empty subsets of it.
3. Which type of function be invertible?
4. What do you mean by scalar matrix?
5. What do you mean by regression?

**[II] Long answer questions.**

**(4 \* 10 = 40)**

1. Find all measures of central tendency for .

Marks	0-5	5-10	10-15	15-20
Number of Students	2	4	3	1

2. Find Rainfall when crop is 6 :

Rainfall	2	3	5	7	8
Crop	1	3	4	5	7

3.  $f:R \rightarrow R$ ,  $f(x) = 3x - 7$  check  $f$  is invertible? If yes, find  $f^{-1}(x)$ .

4. Solve by Cramer rule.

$$2x + 3y + z = 7$$

$$x + 4y + 2z = 9$$

$$3x + y + 2z = 8$$