

**Sample Paper**  
**M. Sc Econometrics and Statistics**

- Q1. For a data series: 2, 1, 6, 4, 2
- a. the mode is 4
  - b. the median is 3
  - c. mean is 8.5
  - d. none of the above

- Q2. If events A and B are not mutually exclusive then:
- a.  $P(A|B)=0$
  - b.  $P(A|B)=P(A)$
  - c.  $P(A|B) \cdot P(B)=P(A \cap B)$
  - d.  $P(A|B)=P(B)$

- Q3. If X be a random variable with pdf  $p(x) = kq^{x-1}$ ,  $x= 1, 2, \dots$  and k is constant then:
- a.  $k=1$
  - b.  $k=a/p$
  - c.  $k=q$
  - d. none of these

Q4. The solution set (x, y) of the following equation is

$$7x + 5y = 10$$

- a. (2, 6)
- b. (4, 2)
- c. None of the above
- d. Solution cannot be found