Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 9227 Roll No.

Int. LLB Examination 2015-2016

(Fifth Semester)

ECONOMICS V

Time : 3 Hours]   *[Maximum Marks : 100*

Note :– Attempt all questions.

1. Attempt any four parts of the following :   4×5=20

   (a) Define statistics as a science.

   (b) What is sampling? What are its objectives?

   (c) Define primary and secondary data.

   (d) What is discrete variables?

   (e) Define Probability.

   (f) What are regression Coefficients?

2. Attempt any four parts of the following :   4×5=20

   (a) Solve $5x^2 + 11 = 31$.

   (b) What is secular trend?

   (c) What is unit Matrix?

[P. T. O.

(d) What is meant by Median?

(e) Given :

$x = 0.85y,$

$y = 0.89x$

find r.

(f) Find the mode from the following data :

12, 18, 12, 13, 25, 25, 12, 16, 23, 12, 6, 12

3. Attempt any two parts of the following : 10×2=20

(a) What do you understand by statistical average? Discuss the desirable properties of an ideal average.

(b) If

$$A = \begin{bmatrix} 1 & 2 & -3 \\ 0 & -1 & 2 \\ 3 & 0 & 4 \end{bmatrix}$$

and

$$B = \begin{bmatrix} -1 & 3 & 4 \\ 6 & 2 & 0 \\ 2 & 1 & 3 \end{bmatrix}$$

find A + B.

(c) Find out median in the following series :

Marks	No. of Students
30–35	4
25–30	8
20–25	13
15–20	15
10–15	12
5–10	10
0–5	2

4. Attempt any two parts of the following :   10×2=20

(a) Briefly explain random sampling in the context of probability. Also distinguish between sampling with or without replacement.

(b) Explain the construction of Laspeyer's and Paasche's index number of quantity or prices on the basis of the following data with 2000 as a base year. Also calculate Fisher's ideal index number :

Goods	Year 2000		Year 2001	
	Quantity	Price	Quantity	Price
G_1	8	10	10	9
G_2	15	15	12	30
G_3	7	5	14	6

(c) Calculate Karl Pearson's Co-efficient of correlation between exports and imports :

Exports	Imports
42	56
44	49
58	53
55	58
68	65
86	76
66	58

5. Attempt any four parts of the following : 4×5=20

(a) Give five points of importance of consumer's surplus.

(b) What is total cost, Average cost and Marginal cost?

(c) A bag contains five black, three white and two red balls. In how many ways can three balls be drawn?

(d) What is Quartile Deviation?

(e) Differentiate absolute and relative measure of dispersion.

(f) If

$$\bar{x} = 27 \text{ and}$$

$$S. D. = 15.52$$

find out C. V.

⌘⌘⌘