AMOOR - IV 2004 Course): WINTER - 2016

Subject : Computer Oriented Statistical Methods

Day : Monday
Date : 19/12/2016

S.D.E.

Time: 02.00 PM TO 05.00 PM Max Marks: 80 Total Pages: 2

N.B.:

- 1) Attempt **ANY FIVE** questions from Section I and attempt **ANY TWO** questions from Section II.
- 2) Answers to both the sections should be written in the **SAME** answer book.
- 3) Figures to the right indicate **FULL** marks.

SECTION - I

- Q.1 What do you mean by Statistics? Explain the applications and limitations of [10] Statistics in various fields.
- Q.2 Given the following data regarding number of defectives in a production lot. [10] Prepare ungrouped frequency distribution. Hence find cumulative frequencies.

4	5	3	0	2	1	3	0	3	2	1	4	0
1	5	2	0	1	2	1	0	1	0	0	0	1
2	0	1	2	3	5	0	1	2	0	1	2	3
0	5	4	0	1	3	2	0	2	2	1	0	0
0	2	3	0	4	1	3	0	1	2	0	4	0

Q.3 The incomplete frequency distribution is given below:

[10]

Class	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	Total
Frequency	12	30	X	65	У	25	18	229

Find missing frequencies if the median value of the data is 46.

Q.4 The equations of two lines of regression are:

4y - 9x = 15,

25x - 6y = 7

[10]

Hence obtain:

- a) Means of x and y.
- **b)** Correlation coefficient between x and y.
- Q.5 The mean and standard deviation of 100 observations are 40 and 51 [10] respectively. It was later on observed that an observation 40 was misread as 50. Calculate correct mean and standard deviation.
- **Q.6** Find median graphically using ogive curves.

[10]

Marks	0 - 20	20 - 40	40 - 60	60 - 80	80 - 100
No. of students	2	18	42	28	5

P.T.O.