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MBA I Semester Regular Examinations December/January 2017/2018 STATISTICS FOR MANAGERS

(For students admitted in 2017 only)

Time: 3 hours

SECTION – A

Max. Marks: 60

(Answer the following: $(05 \times 10 = 50 \text{ Marks})$

1 Explain the measures of central tendency for business decision making.

OR

2 Find standard deviation from the following data:

Values	5	10	15	20	25	30	35
Frequency	2	7	11	15	18	4	1

3 Calculate the coefficient of correlation of the following data:

Х	2	3	4	5	6
у	7	9	10	14	15

OR

4 Compute rank correlation from the following table.

~ ¬	· IJ	434	420	430	424	428
y 3	30	332	328	331	327	325

5 Difference between binomial and Poisson distribution.

OR

6 Fit a Poisson distribution to the following data and find out theoretical or expected frequencies.

Х	0	1	2	3	4	5	6	7
f	48	72	99	73	43	20	8	2

7 Test the significance difference between simple mean and the population mean.

OR

- 8 The average hourly wage of a sample of 150 workers in plant A is Rs. 256 with a standard deviation of Rs. 1.08. Average wage of a sample of 200 workers in plant B Rs. 2.87 with a standard deviation of Rs. 1.28 can be applicant safely. Assume that the hourly wages paid by plant B is higher than plant A.
- 9 Tests are made on the proportion of defective costing produced by five different molds. If there were 14 defectives among 100 costing made with mold – I. 33 defectives among 200 costings made with mold – II. 21 defective among 180 costings made with mold – III. 17 defectives among 120 costings made with mold – IV and 25 defectives among 150 costings made with mold – V. Use the 0.01 level of significance to test whether the true proportion of defective is the same for each mold.

OR

10 The following figures show the distribution of digits in numbers chosen at random from a telephone directory.

	Digit	0	1	2	3	4	5	6	7	8	9
	Frequency	1026	1107	997	966	1075	933	1107	972	964	853
th.	har the digite may be taken to easy at equal frequency in the directory										

Test whether the digits may be taken to occur at equal frequency in the directory.

SECTION - B

(Compulsory question, 01 X 10 = 10 Marks)

11 Case Study:

The 3 samples given below have been obtained from a normal population with equal variance. Test the hypothesis that sample means are equal.

10 119	pour	0010	Janne	pie meane			
	А	8	10	7	14	11	
	В	7	5	10	9	9	
	С	12	9	13	12	14	

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