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Reg. No. : .....

Name : .....

Second Semester B.B.A. LL.B. (Five Year Integrated) Degree Examination, September 2016
(2013 Admission)
Paper – III : BUSINESS STATISTICS

Time : 3 Hours Max. Marks : 80

I. Answer **any five** of the following. **Each** question carries **2** marks. Answer should **not** exceed **50** words **each** : **(5×2=10 Marks)**

1) What do you mean by census method ?

2) Define stratified random sampling.

3) What is exclusive series ?

4) What is a frequency polygon ?

5) State the formula for computing the weighted average.

6) What do you mean by coefficient of variation ?

7) Define kurtosis.

8) What do you understand by the term "event" ?

II. Answer **any four** of the following. **Each** question carries **4** marks. Answer should **not** exceed **120** words **each** : **(4×4=16 Marks)**

9) What are the functions of statistics ?

10) What are the causes of sampling errors ?

11) Write down the important properties of binomial distribution.

12) Distinguish between questionnaire and schedule.

13) What are the limitations of diagrammatic presentation ?

14) Tickets numbered from 1 to 50 are shuffled and a ticket is drawn. What is the probability that a ticket drawn is a multiple of 3 or 4 ?

P.T.O.

III. Answer **any four** of the following. **Each** question carries **6** marks : **(4×6=24 Marks)**

15) What are the essentials of ideal classification of data ?

16) Why does the normal distribution hold the most favourable position in probability theory ?

17) From the standard pack of 52 cards, four cards are drawn one after the other without replacement. What is the probability that they are all aces ?

18) Find the median of the following data.

Class :	0 – 3	3 – 6	6 – 10	10 – 12	12 – 15	15 – 20
Frequency :	4	8	10	14	16	20

19) Calculate harmonic mean from the following data.

Marks :	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50
No. of students :	2	7	13	5	3

20) Calculate the mean deviation and its coefficient from mean.

Marks :	0 – 20	20 – 40	40 – 60	60 – 80	80 – 100
No. of students :	10	16	30	32	12

IV. Answer **any three** of the following. **Each** question carries **10** marks : **(3×10=30 Marks)**

21) What are the main uses of graphs ? Explain various types of graphs.

22) Discuss the merits and demerits of various methods of collecting primary data.

23) Calculate Karl Pearson's coefficient of Skewness from the data given below :

Variable	**Frequency**
140 – 150	4
150 – 160	11
160 – 170	14
170 – 180	12
180 – 190	6
190 – 200	2
200 – 210	1

24) The daily temperature recorded in a city Russia in a year is given below :

Temperature C°	No. of days
– 40 to – 30	10
– 30 to – 20	28
– 20 to – 10	30
– 10 to 0	42
0 to 10	65
10 to 20	180
20 to 30	10

Calculate the mean, standard deviation and coefficient of variation.

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