B.B.A. (Semester- II) Exam.-2014

BBA-206 (N)

(New Course)

Paper: VI

Business Statistics

Time: Three Hours] [Maximum Marks: 70

Note: Attempt any ten questions from Section 'A' and any two questions from Section 'B'.

Section-A

Note: Attempt any ten questions from Section 'A'. (5x10=50)

1. Describe the functions and importance of statistics.

2. Discuss the relative merits and demerits of Mean and Median.

3. The mean marks of all the candidates in class were 5.16. Determine the Mean marks of failed candidates.

X (marks)	4	5	6	7	8	9
F (No. of students)	8	10	9	6	4	3

Section-B

Note: Attempt any two questions. (20x1=20)

13. The following table shows the ages (X) and blood pressure (Y) of 8 persons.

X	52	63	45	36	72	65	47	25
Y	62	53	51	25	79	43	60	33

Obtain the regression equation of Y on X and find the expected blood pressure of a person who is 49 years old.

14. A box contains 3 red and 7 white balls. One ball is drawn at random and in its place a ball of the other colour is put in the box. Now one ball is drawn at random from the box. Find the probability that it is red.

15. Define the following terms:
(i) Binomial Distribution
(ii) Conditional probability

2

4. The following table gives marks obtained by 60 students. Compute Mean and Standard Deviation:

Marks (more than)	70	60	50	40	30	20
No. of students	7	18	40	40	55	60

5. Find out the co-efficient of Quartile Deviation from the following data:

Age	15	16	17	18	19	20	21
No. of students	4	6	10	15	12	9	4

6. Write a short note on skewness and its measurement.

7. Explain Random Sampling, Purposive Sampling and Stratified Sampling.

8. Calculate the Pearson's Coefficient of Correlation from the following data taking 44 and 26 as the assumed Mean of X and Y respectively.

X	57	42	40	38	42	45	42	44	40	46	44	43
Y	10	26	30	41	29	27	27	19	18	19	31	29

3

9. What are the different methods of finding correlation?

10. Find out median marks from the following frequency distribution-

Marks less than	80	70	60	50	40	30	20	10
No. of students.	240	190	125	95	75	60	40	25

11. The Mean and S.D. of 20 items is found to be 10 and 2 respectively. At the time of checking it was found that one item 8 was incorrect. Calculate the correct Mean and S.D. if:
   (i) The wrong Mean is omitted and
   (ii) It was replaced by 12.

12. Write short notes on the following:
   (a) Type-I and Type-II errors
   (b) Sampling and Non-Sampling errors