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D – 5182

Reg. No. : .....

Name : .....

**First Semester B.B.A. Degree Examination, February 2018**  
**Career Related First Degree Programme under CBCSS**  
**Group 2(b)**  
**Complementary Course**  
**BM 1131 – BUSINESS STATISTICS**  
**(2013 Admission)**

Time : 3 Hours

Total Marks : 80

## SECTION – A

Answer **all** questions in **one** word or **two** sentences. **Each** question carries **one** mark.

1. What is Statistics ?
2. Define tabulation.
3. Define Mode.
4. What is measures of central tendency ?
5. What is Grid System ?
6. What is a range ?
7. What is sample space ?
8. What is harmonic mean ?
9. Define dispersion.
10. What is Lorenz curve ?

## SECTION – B

Answer **any eight** questions, **not** to exceed **one** paragraph. **Each** question carries **2** marks.

11. State the advantages of Mode.
12. What is sampling errors ?



13. State the merits of census method.
14. What is statistical investigation ?
15. What is secondary data ?
16. What is a variable ?
17. State the demerits of primary data.
18. Calculate arithmetic mean of the weight of 10 students in a class.
- |                  |    |    |    |    |    |    |    |    |    |    |
|------------------|----|----|----|----|----|----|----|----|----|----|
| Sl.No. :         | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| Weight (in Kg) : | 42 | 56 | 49 | 50 | 49 | 53 | 52 | 48 | 47 | 54 |
19. Calculate the geometric mean for the following data.  
25, 37, 356, 545, 976, 500, 750
20. Calculate Median marks from the following data.  
35, 46, 29, 57, 60, 73, 20, 59, 50, 70
21. Find the coefficient of skewness if difference between two quartiles = 8  
Sum of two quartiles = 22  
Median = 10.5
22. What are the ideals of good average ?

## SECTION – C

Answer **any six** questions, **not** to exceed **120** words. **Each** question carries **4** marks.

23. Explain the general rules for the preparation of diagrams.
24. Explain Baye's theorem.
25. From a well shuffled pack of 52 Cards, 2 Card are drawn at random. What is the probability that both them are queen Cards. Assume that there is no replacement of the Card after the first raw.
26. The Marks obtained by 100 students of a Class are given below.

Marks =	30	32	37	42	55	67	69	75
No. of Students =	9	11	17	20	10	13	9	11

Calculate Karl Pearson's coefficient of skewness.



27. Calculate the standard deviation from the following.

<b>Age in years :</b>	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70
<b>No. of Persons :</b>	2	4	8	10	12	4

28. Differentiate between census method and sample method.

29. Explain about equally likely events and mutually exclusive events.

30. Statistics is the science of averages. Explain.

31. Explain the qualities of a good questionnaire.

**SECTION – D**

Answer **any two** of the following. **Each** question carries **15** marks.

32. A box contain 5 white, 7 red and 4 black balls. What is the probability that if three balls are drawn ?

i) All the three are white

ii) All are red

iii) All are black

iv) One is red, one is white and one is black

v) Two white and one black.

33. Explain the scope of statistics.

34. Compute mean, S.D, and variance for the following data.

<b>CI</b>	Below 10	Below 20	Below 30	Below 40	Below 50	Below 60
<b>f :</b>	15	32	51	78	97	109

35. Explain about the advantages and disadvantages of sampling method.

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