



Reg. No. :

Name :

First Semester B.B.A. Degree Examination, December 2014
Career Related First Degree Programme under CBCSS
Group 2(b)
Complementary Course
BM 1131 – BUSINESS STATISTICS
(2013 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A

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

1. Define Statistics.
2. What is statistical investigation ?
3. What is secondary data ?
4. What is statistical errors ?
5. What is a variable ?
6. Define measures of central tendency.
7. What is a raw data ?
8. What is a range ?
9. Define dispersion.
10. What is sample space ?

SECTION – B

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

11. State the demerits of primary data.
12. Explain how can random sampling be drawn ?



13. What is Harmonic mean ?
14. What are the demerits of Geometric mean ?
15. What is an event ?
16. Find the geometric mean from the following data

Variable x :	2	3	5	6	4
Frequencies (f) :	10	15	18	12	7
17. Find the Harmonic mean from the following data

Value (x) :	35	45	89	76	87	66	110	135
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18. Find the coefficient of skewness if difference between two quartiles = 8
Sum of two quartiles = 22
Median = 10.5
19. Calculate median from the following figures.
30 45 75 65 50 52 28 40 49 35 42.
20. What are the ideals of good average ?
21. What do you mean by frequency ?
22. What is convenience sampling ?

SECTION – C

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

23. Explain the factors determining the reliability of data.
24. Statistics is the science of averages. Explain.
25. Discuss the merits and demerits of median.
26. Explain the requirements of a good tabulation.
27. Explain the qualities of a good questionnaire.



28. Briefly explain Bayes' theorem.

29. Calculate the coefficient of skewness from the following data.

Size of item :	6	7	8	9	10	11	12
Frequency :	3	6	9	13	8	5	4

30. Calculate the standard deviation from the following

Age in years :	10-20	20-30	30-40	40-50	50-60	60-70
No. of persons :	2	4	8	10	12	4

31. Three coins are tossed simultaneously, What is the probability that

- 1) There are three heads
- 2) There are two or more than two heads
- 3) There are two or more than two tails.

SECTION - D

Answer any two questions. Each question carries 15 marks.

32. Explain the various sources of collection of secondary data and explain the limitations also.

33. Explain the meaning of sampling method, and write its advantages and disadvantages.

34. Compute mean deviation from \bar{X} and M for given series.

x :	5	10	15	20	25	30
f :	3	4	8	12	7	2

35. In a bolt factory machines A, B, C manufacture respectively 25% , 35%, and 40% of the total production. Of their output 5, 4, 2 percent are defective bolts. A bolt is drawn at random from the production and is found to be defective. What is the probability that it was manufactured by machines A, B and C ?
