

H - 2316

(Pages : 4)

Reg. No. : .....

Name : .....

First Semester B.B.A. Degree Examination, November 2019

Career Related First Degree Programme under CBCSS

Complementary Course

BM 1131 : STATISTICS FOR BUSINESS DECISION

(2017 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

PART - A

Answer **all** questions. Each question carries 1 mark.

1. What is mean?
2. What is correlation?
3. Define Absolute measures of dispersion.
4. What do you mean by time series?
5. What is probable error?
6. What is standard deviation?
7. What is frequency?
8. What is upper limit?



P.T.O.

9. What is range?
10. What is dispersion?

(10 × 1 = 10 Marks)

PART – B

Answer **any eight** questions. Each question carries 2 marks.

11. What is geometric mean?
12. What are deciles?
13. What is percentiles?
14. Define weighted average.
15. What is ogive?
16. What is quartiles?
17. What is coefficient of variation?
18. Define index numbers.
19. Define Fisher's Index number.
20. What is line of best fit?
21. What is kurtosis?
22. What is median?



(8 × 2 = 16 Marks)

PART – C

Answer **any six** questions. Each question carries 4 marks.

23. Calculate the Karl Pearson's coefficient of correlation between death and birth rate for the following data:

|              |    |    |    |    |    |    |
|--------------|----|----|----|----|----|----|
| Birth Rate : | 24 | 26 | 32 | 33 | 35 | 30 |
| Death Rate : | 15 | 20 | 22 | 24 | 27 | 24 |

24. Calculate median 110, 115, 140, 117, 109, 113, 120
25. What is Regression lines?
26. What do you mean by partition values?
27. Calculate mode 14, 16, 16, 14, 22, 15, 14, 23, 14, 25
28. Differentiate Regression and Correlation.
29. Find harmonic mean of 1, 2, 4, 10?
30. Explain characteristics of Ideal measures?
31. Explain various methods of studying simple correlation

(6 × 4 = 24 Marks)

PART – D

Answer **any two** questions. Each question carries 15 marks.

32. Write a note on "Application of Statistics in business decision".
33. Calculate range and its coefficient.

| Marks   | No. of Students |
|---------|-----------------|
| 10 – 15 | 2               |
| 15 – 20 | 3               |
| 20 – 25 | 7               |
| 25 – 30 | 8               |
| 30 – 35 | 5               |
| 35 – 40 | 10              |



34. The mean salary paid to 1000 employees of an establishment was found to be 180.40. Later on it was discovered that the salaries of two employees were wrongly entered as 297 and 165... their correct salaries were 197 and 185. Find the correct arithmetic mean?

35. Calculate first four central moments and apply the Beta measure of Skewness 6, 7, 8, 10, 14.

**(2 × 15 = 30 Marks)**