

D 13873

(Pages : 3)

Name.....

Reg. No.....

THIRD SEMESTER B.VOC. DEGREE EXAMINATION, NOVEMBER 2021

Logistics Management

GEC 3BS 09—BUSINESS STATISTICS

Time : Three Hours

Maximum : 80 Marks

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

1. _____ data is original in character and is generated by surveys conducted by individuals or research institutions.
2. Which of the following characteristics a sampling unit must have ?
 - a) Must cover the entire population.
 - b) Non-overlapping.
 - c) Distinct and unambiguous.
 - d) All the above.
3. List, map or other acceptable material called the _____ serve as a guide to population under study.
4. Which of the following is not a mathematical average ?
 - a) Median.
 - b) Arithmetic mean.
 - c) Geometric mean.
 - d) Harmonic mean.
5. Positional average are :
 - a) Mean.
 - b) Median.
 - c) Mode.
 - d) Both (b) and (c).
6. If correlation between the two variables is unity, there is :
 - a) Perfect correlation.
 - b) Perfect positive correlation.
 - c) Perfect negative correlation.
 - d) No correlation.

Turn over

Part C (Short Essay Questions)

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

23. Explain the different types of Bar diagram. What are the benefits of preparing diagrams and graphs ?
24. Write a brief note on scope and limitations of statistics.
25. What is arithmetic mean ?
26. What is data collection ? Explain the methods for collection of primary Data.
27. Write a brief note on frequency Polygon.
28. What is Spearman's rank correlation ? Explain the merits and demerits of Spearman's Rank correlation.
29. Differentiate between Correlation and Regression.
30. Calculate Karl Pearson's co-efficient of correlation :
- | | | | | | | | | |
|-----|---|---|---|---|---|----|---|----|
| x | : | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| y | : | 8 | 2 | 4 | 5 | 10 | 6 | 12 |
31. Explain the requirements for construction of a statistical Table.

(6 × 4 = 24 marks)

Part D (Essay Questions)

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

32. What is business statistics ? Explain the scope and limitations of statistics.
33. Compute Karl Pearson's Co-efficient of correlation. :
- | | | | | | | | | | | | |
|--------------|---|----|----|----|----|----|----|----|----|----|----|
| Price (Rs.) | : | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Demand (Rs.) | : | 31 | 28 | 26 | 22 | 25 | 30 | 27 | 22 | 16 | 23 |
34. From the following data of the age of Husband and the age of wife, form the two regression equations and calculate the husband's age when the wife's age is 16 :
- | | | | | | | | | | | | |
|---------------|---|----|----|----|----|----|----|----|----|----|----|
| Husband's age | : | 36 | 23 | 27 | 28 | 28 | 29 | 30 | 31 | 33 | 35 |
| Wife's age | : | 29 | 18 | 20 | 22 | 27 | 21 | 29 | 27 | 29 | 28 |
35. What is data collection ? Explain different sources of data collection ?

(2 × 15 = 30 marks)