



Term Evaluation (Even) Semester Examination March 2025

Roll

no.....

Name of the Course: B.com (Hons)

Semester: II

Name of the Paper: Business Statistics

Paper Code: BCH 202

Time: 1.5 hour

Maximum Marks: 50

Note:

- (i) Answer all the questions by choosing any one of the sub-questions
- (ii) Each question carries 10 marks.

Q1.

(10 Marks)

a. Analyze the importance of statistics in business and explain how statistical methods contribute to effective decision-making (CO4)

OR

b. Evaluate the limitations of statistics in business applications and discuss how these limitations can impact managerial decisions (CO5)

Q2.

CO..... (10 Marks)

a. What do you understand by classification and tabulation of data? Prepare a blank table to show the exports of three companies A, B, C to five countries UK, USA, USSR, France and West Germany in each of the years 2023-2024 (CO4)

OR

b. What do you mean by sampling? Describe briefly main types of sampling methods? (CO2)

Q3.

CO..... (10 Marks)

a. Justify the need for statistical knowledge in business management (CO4)

OR

b. Explain the different methods of collecting primary and secondary data in a statistical investigation. Discuss the advantages and disadvantages of each method (CO1)

Q4.

(10 Marks)

a. Design a questionnaire for a statistical investigation on consumer satisfaction with online shopping? Discuss the key factors to consider while framing questions to ensure effective data collection? (CO4)

OR

b. Construct a frequency distribution table for the following dataset representing the monthly sales (in ₹'000) of 40 retail stores: (CO4)

Sales Data (in ₹'000):



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42, 55, 48, 60, 75, 52, 67, 45, 38, 72, 58, 50, 65, 78, 82, 90, 55, 62, 47, 80, 66, 73, 85, 95, 41, 59, 49, 77, 88, 92, 100, 105, 110, 98, 76, 84, 91, 57, 64, 70

Classify the data into class intervals, construct a frequency distribution table, and include cumulative frequency and relative frequency.

Q5.

(10 Marks)

a. **Evaluate** the importance of diagrammatic and graphical representation in business statistics. The following data represents the **quarterly revenue (in ₹ lakhs) of a company over two years:(CO4)**

Quarter	2022 Revenue (₹ lakhs)	2023 Revenue (₹ lakhs)
Q1	120	135
Q2	150	165
Q3	170	190
Q4	200	220

Draw a Suitable Chart to compare revenue trends over the two years and **interpret** the results.

OR

b. Draw an Ogive by less than method and determine the number of companies getting profits between Rs 40 crores and Rs 70 Crores:(CO4)

Profits (Rs Crores)	No of Companies
10-20	8
20-30	12
30-40	20
40-50	24
50-60	15
60-70	10
70-80	7
80-90	3
90-100	1