

BOARD-PATTERN PRACTICE PAPER · CBSE CLASS 11

Measures of Central Tendency

Statistics for Economics, CI-11 · Chapter 5 · Matches current CBSE blueprint · Each question PYQ-sourced where indicated

DATE	TOTAL MARKS	DURATION	MARKING	TARGET
_____	30	75 min	As per board	≥ 24/30

GENERAL INSTRUCTIONS

- All questions are compulsory.
- Section A: 1-mark MCQs and very short answers.
- Section B: 3-mark short answer questions.
- Section C: 4-mark short answer questions with computation.
- Section D: 6-mark long answer questions.
- Use of simple calculator is NOT permitted; show all working clearly.
- Internal choice is provided in some questions.

Section A — Objective (8 marks)
8 MARKS · 18 MIN

- Q1.** Which of the following is NOT a measure of central tendency? (a) Mean (b) Median (c) Mode (d) Range
[PYQ 2024 Delhi] **[1 mark]**
- Q2.** $\sum (x - \bar{x})$ equals _____. [PYQ 2023 OD] **[1 mark]**
- Q3.** State the formula for finding median of a continuous frequency distribution. [PYQ 2023 Delhi] **[1 mark]**
- Q4.** If Mean = 25 and Median = 24, find Mode using the empirical relation. [PYQ 2022 Delhi] **[1 mark]**
- Q5.** Name the appropriate measure of central tendency for qualitative data such as 'preferred brand'. [PYQ 2022 OD] **[1 mark]**
- Q6.** Median of the data 12, 15, 18, 21, 24 is _____. [PYQ 2021 Delhi] **[1 mark]**
- Q7.** Mode of the data 4, 6, 4, 8, 4, 10, 6 is _____. [PYQ 2020 Delhi] **[1 mark]**
- Q8.** Which measure is most affected by extreme values? [PYQ 2019 OD] **[1 mark]**

Section B — Short Answer I (6 marks)
6 MARKS · 15 MIN

- Q9.** Distinguish between positional and computed averages with one example each. [PYQ 2023 OD] **[3 marks]**
- Q10.** Compute the weighted mean of marks 60, 80, 75, 90 with weights 1, 2, 3, 4 respectively. [PYQ 2022 OD] **[3 marks]**

Section C — Short Answer II (8 marks)
8 MARKS · 22 MIN

- Q11.** Compute the arithmetic mean by step-deviation method for the following data: Classes 0-10, 10-20, 20-30, 30-40, 40-50 with frequencies 4, 6, 10, 6, 4. [PYQ 2024 Delhi] **[4 marks]**
- Q12.** Find the median for the following continuous distribution: Wages (₹) 0-10, 10-20, 20-30, 30-40, 40-50; Workers 5, 10, 15, 8, 2. [PYQ 2023 OD] **[4 marks]**

Section D — Long Answer (8 marks)
8 MARKS · 20 MIN

- Q13.** Find the mode of the following continuous distribution and state which measure of central tendency is most representative for this data; justify briefly. Age (yrs) 0-10, 10-20, 20-30, 30-40, 40-50; Frequency 6, 11, 25, 14, 4. [PYQ 2024 OD] **[5 marks]**
- Q14.** Explain with reasons which measure of central tendency you would use in each case: (i) average income of a country; (ii) most popular shoe size for a store's inventory; (iii) average marks in a uniform class test where no student scored extreme values. [PYQ 2022 Delhi] **[3 marks]**

Marking scheme & model answers — see companion Answer Key PDF · all PYQs traceable to actual CBSE papers · readyforboards.com · +91 70330 05444