

CHAPTER-13 | STATISTICS

QUIZ
PART-05

1. In the food expenditure table, total households are:

- A. 20
B. 25
C. 30
D. 35 (B)

Explanation: Adding all frequencies gives 25 households.

2. The class mark of 200–250 is:

- A. 200
B. 215
C. 225
D. 250 (C)

Explanation: The class mark is the midpoint of the interval, so $(200 + 250)/2 = 225$.

3. In the food expenditure table, the highest frequency is:

- A. 4
B. 5
C. 12
D. 2 (C)

Explanation: The class 200–250 has frequency 12, which is the highest.

4. The mean daily food expenditure is:

- A. ₹201 B. ₹211
C. ₹221 D. ₹231 (B)

Explanation: Using class marks and frequencies, the mean comes out to ₹211.

5. In the SO₂ table, total number of localities is:

- A. 25 B. 30
C. 35 D. 40 (B)

Explanation: The question states that the data were collected for 30 localities.

6. The class mark of 0.08–0.12 is:

- A. 0.08
B. 0.09
C. 0.10
D. 0.12 (C)

Explanation: The midpoint of 0.08 and 0.12 is 0.10.

7. The mean concentration of SO₂ is closest to:

- A. 0.089 ppm
B. 0.099 ppm
C. 0.109 ppm
D. 0.119 ppm (B)

Explanation: The grouped mean is approximately 0.0987 ppm, which is closest to 0.099 ppm.

8. In the absentee record, total students are:

- A. 35
B. 38
C. 40
D. 42 (C)

Explanation: The record is given for 40 students.

9. The mean number of absent days is:

- A. 10.475
B. 11.475
C. 12.475
D. 13.475 (C)

Explanation: Using class marks and frequencies, the mean absence is 12.475 days.

10. The mean literacy rate of 35 cities is closest to:

- A. 67.43%
B. 68.43%
C. 69.43%
D. 70.43% (C)

Explanation: The grouped mean of the literacy-rate data is about 69.43%.