1. In the patients table, the modal class is:
   A. 15–25 B. 25–35
   C. 35–45 D. 45–55 (C)

Explanation : The class 35–45 has the highest frequency (23), so it is the modal class.

2. In the electrical components table, the modal class is:
   A. 20–40 B. 40–60
   C. 60–80 D. 80–100 (C)

Explanation: The class 60–80 has the maximum frequency, 61.

3. The modal lifetime of the electrical components is closest to:
   A. 55.63 hours
   B. 65.63 hours
   C. 75.63 hours
   D. 85.63 hours (B)

Explanation: Using the grouped-data mode formula, the mode is about 65.63 hours.

4. In the village expenditure table, the modal class is:
   A. 1000–1500
   B. 1500–2000
   C. 2000–2500
   D. 3000–3500 (B)

Explanation: The class 1500–2000 has the highest frequency, 40.

5. The modal monthly expenditure is closest to:
   A. ₹1747.83 B. ₹1847.83
   C. ₹1947.83 D. ₹2047.83 (B)

Explanation : Applying the mode formula to the expenditure table gives approximately ₹1847.83.

6. In the teacher-student ratio table, the modal class is:
   A. 20–25 B. 25–30
   C. 30–35 D. 35–40 (C)

Explanation : The interval 30–35 has the greatest frequency, 10.

7. The mode of the teacher-student ratio is closest to:
   A. 25.625
   B. 28.625
   C. 30.625
   D. 33.625 (C)

Explanation : Using the mode formula, the mode comes out to about 30.625.

8. In the batsmen table, the modal class is:
   A. 3000–4000
   B. 4000–5000
   C. 5000–6000
   D. 6000–7000 (B)

Explanation : The class 4000–5000 has the highest frequency, 18.

9. The mode of runs scored by batsmen is closest to:
   A. 4308.7 B. 4508.7
   C. 4608.7 D. 4808.7 (C)

Explanation : By substituting the values in the mode formula, the mode is about 4608.7 runs.

10. In the cars table, the modal class is:
    A. 20–30 B. 30–40
    C. 40–50 D. 60–70 (C)

Explanation : The interval 40–50 has the highest frequency, 20, so it is the modal class.

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