

Mizoram Board Class 12 Business Mathematics Question Paper (Memory Based)

Time Allowed :3 Hour	Maximum Marks :60	Total Questions :24
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General Instructions

Read the following instructions very carefully and strictly follow them:

- Answers to this Paper must be written on the paper provided separately.
- You will not be allowed to write during the first 15 minutes
- This time is to be spent in reading the question paper.
- The time given at the head of this Paper is the time allowed for writing the answers,
- The paper has four Sections.
- Section A is compulsory - All questions in Section A must be answered.
- You must attempt one question from each of the Sections B, C and D and one other question from any Section of your choice.

1. A and B start a business with capitals of 50,000 and 40,000 respectively. After 6 months, C joins them with 80,000. Find the share of each in a profit of 25,000 at the end of the year.

2. An agent is paid a 5% commission on all sales and an additional 2% del-credere commission on credit sales. If he sells goods worth 50,000 (of which 20,000 are credit sales), calculate his total earning.

3. Find the value of n if

$${}^n P_4 = 12 \times {}^n P_2.$$

4. Expand $(2x - 3y)^5$ using the Binomial Theorem.

5. Solve the system of equations using Cramer's Rule:

$$2x + 3y = 8, \quad x - y = -1.$$

6. A box contains 5 red and 7 white balls. Two balls are drawn at random. What is the probability that both are red?

7. A merchant marks his goods 20% above the cost price and allows a discount of 10%. Find his profit percentage.
