MAHARASHTRA BOARD · CLASS 10 · MATHS PART 1 ALGEBRA

Maharashtra Board Class 10 Maths Part 1 Algebra Guess Paper 2027

Time: 2 hours · Maximum marks: 40 · 20 questions

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Section 1
Q1(A) MCQs (choose the correct alternative) and Q1(B) short one-mark subquestions

Q1. One of the roots of the equation $x^2 + mx - 5 = 0$ is 2, find the value of m. (a) -2 (b) -1/2 (c) 1/2 (d) 2 — 1 mark

Q2. From the following numbers which number cannot represent a probability ? (A) 0.6 (B) 2.0 (C) 0.15 (D) 0.75 — 1 mark

Q3. To draw the graph of $4x + 5y = 19$, find the value of y when $x = 1$. (A) 4 (B) 3 (C) 2 (D) -3 — 1 mark

Q4. Out of the following equations which one is not a quadratic equation ? (A) $x^2 + 4x = 11 + x^2$ (B) $x^2 = 4x$ (C) $5x^2 = 90$ (D) $2x - x^2 = x^2 + 5$ — 1 mark

Q5. When two coins are tossed simultaneously, write the sample space 'S'. — 1 mark

Q6. If $15x + 17y = 21$ and $17x + 15y = 11$, then find the value of $x + y$. — 1 mark

Q7. Find the first term and common difference of the given A.P. 5, 1, -3, -7, ... — 1 mark

Q8. Face value of one share is `100 and premium is `10. Find the market value of the share. — 1 mark

Section 2
Q2(A) complete-the-activity (any two of three) and Q2(B) two-mark subquestions (any four of five)

Q9. Solve the following quadratic equation by factorisation method: $25m^2 = 9$. — 2 marks

Q10. Solve the following simultaneous equations: $5x + 3y = 9$; $2x - 3y = 12$. — 2 marks

Q11. Complete the following table to draw the graph of the equation $x - y = 1$ (find missing x, y and (x, y) values). — 2 marks

Q12. Given A.P. is 12, 16, 20, 24, ... Find the 24th term of this progression. — 2 marks

Q13. Form the quadratic equation whose roots are 3 and -10. — 2 marks

Q14. If one die is rolled, complete the activity to find the probability of the event that the number on the upper face is prime. — 2 marks

Section 3
Q3(A) three-mark activity (any one of two) and Q3(B) three-mark subquestions (any two of four)

Q15. Solve the following quadratic equation by formula method: $x^2 - 3x - 2 = 0$. 3 marks

Q16. In a general store the prices of different articles and their demand are shown in the frequency distribution table (Less than 20, 20-40, 40-60, 60-80, 80-100). Find the median of the prices. 3 marks

Q17. Draw a histogram of the following data: Height of Students (cm) 135-140, 140-145, 145-150, 150-155 with number of students 4, 12, 16, 8. 3 marks

Section 4
Q4 four-mark problems (any two of three)

Q18. The table shows the classification of percentages of marks of students and the number of students (30-40 ... 90-100). Draw a frequency polygon from the table. 4 marks

Q19. Smt. Tejaswini purchased 100 shares of FV `80 when the MV is `900. She paid brokerage at 0.5% and 18% GST on brokerage. Find: (1) Net amount paid for 100 shares (2) Brokerage paid on sum invested (3) GST paid on brokerage (4) Total amount paid for 100 shares. 4 marks

Section 5
Q5 three-mark challenge problem (any one of two)

Q20. A two digit number is formed using digits 2, 3, 5, 7, 9 without repetition. What is the probability that the number formed is (a) an odd number (b) a multiple of 5 ? 3 marks

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