

SUBJECTIVE QUESTION PAPER

B.Sc. (Hons.) Final Examination 2024, Semester-IV

Subject: Elementary Mathematics

Course code: EMATH-2201

Time Allowed: 155 minutes

Max Marks: 100

Instructions: Attempt any FOUR questions.

Q.2(a) Solve the following equation by completing the square: $x^2 - x = 2$.

(b) Find the values of a and b if $x - 2$ and $x + 2$ are factors of the polynomial $x^3 - 4x^2 + ax + b$.

Q.3(a) Solve the following system of equations: $2x - y = 4$; $2x^2 - 4xy - y^2 = 6$.

(b) A factory makes 560 units in 7 days with the help of 20 machines. How many units can be made in 10 days with the help of 18 machines?

Q.4(a) How many 5-digit numbers can be formed from the digits 2, 2, 3, 3, 4, 4?

(b) The Governor of the Punjab calls a meeting of 12 officers. In how many ways can they be seated at a round table?

(c) There are 30 girls and 12 boys in a class. One third of the boys and half of the girls have blue eyes. Find the probability that one student chosen at CR is either a boy or has blue eyes.

Q.5(a) The members of a club are 12 boys and 8 girls. In how many ways can a committee of 3 boys and 2 girls be formed?

(b) Use mathematical induction to prove that $1 + 3 + 5 + \dots + (2n - 1) = n^2$ for all $n \in \mathbb{N}$.
Find the term involving x^4 in the expansion of $(2 - 3x)^7$.

Q.6(a) The area and width of a rectangle are 225m^2 and 5m , respectively. Find the length of the rectangle.

(b) Find the derivative of the following function: $y = (x + 1)(x + 2)$.

(c) Evaluate the following integral: $\int (3x^2 - 2x^{\frac{1}{2}} + 5) dx$.

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