

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Which of the following function form 1 to itself are bi-jective	A. F(x) = x + 3 B. F(x) = x ⁵ C. F(x) = 3x + 2 D. F(x) = x ² + x
2	Question Image	A. 71 B22 C. 27 D. 28
3	If b ₁ , b ₂ , b ₃ , are in G.P. with first term unity and common ratio r, then the minimum value of b ₁ - b ₃ + b ₅ is equal to	A. 3/4 B. 1/4 C. 1 D. None of these
4	(1 - x) ³ =	A. 1 + 3x + 3x ² + x ³ B. 1 + x + x ² + x ³ C. 1 - x + x ² - x ³ D. 1 - 3x + 3x ² - x ³
5	If a polynomial $P(x)$ is divided by $x - a$, then the remainder is	A. P(o) B. P(-a) C. P(a) D. None of these
6	In a triangle ABC, if angle A = 72° , angle B = 48° and c = 9 cm then \hat{C} is	A. 69° B. 66° C. 60° D. 63°
7	Question Image	A. 1777 B. 223 C. 257
8	Question Image	
9	I f a =5i + 2j, then a =	A. √13 B. √7 C. 1/√13 D. √29
10	Question Image	
11	3/2 is	A. An irrational number B. Whole number C. A positive integer D. A rational number
12	Question Image	A. images B. pre-images C. constants D. none of these
13	Question Image	A. 2 D. 0
14	For non-trival solution A is	A. A = 0 B. A ^t = 0 C. A = 0 D. None of these
15	for n€ N, 3 ^{2n + 7} is divisible by	A. 7 B. 8 C. 9 D. 10
16	Question Image	

17	AB is a vertical pole and C is its middle point. The end A is on the level ground and P is a point on the level ground other than A. the portion CB subtends and angle β at P. If AP : β = 2 : 1 then β =	•
18	If x^2 + px + 1 is a factor of ax^3 + bx +c, then	A. a ² + c ² = -ab B. a ² - c ² = ab C. a ² - c ² = ab D. None of these
19	Question Image	A. Rational B. Irrational C. Even D. Odd
20	If one root of $5x^2 + 13x + k = 0$ be the reciprocal of the other root the value of k is	A. 0 B. 2 C. 1 D. 5