

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	A quadratic equation in x is an equation that can be written in the form	A. $ax^2 + b = 0$ B. $ax^3 + b^2 + c = 0$ C. $ax^2 + bx + c = 0$ D. $ax^3 + bx^3 + cx = 0$
2	Question Image	A. A = C B. A = B C. B = C D. None of these
3	The sum of the cubes of three consecutive natural number is divisible by	A. 9 B. 6 C. 5 D. 10
4	The points (5,2),(-2,3),(-3,-4) and (4,-5) are the vertices of:	A. rhombus B. Parallelogram C. rectangle D. square
5	The coefficient of x^n in the expansion of $(1-2x)^{-1}$ is	A. $(-1)^n 2^n$ B. 2^n C. $(-1)^{n+1} x^n$ D. $(n+1) 2^n$
6	Question Image	A. 0 B. 1 C. 2 D. None of these
7	In R the left cancellation property w.r.t addition is	
8	The horizontal distance between the two towers is 60 m. the angular elevation of the top of the taller tower as seen from the top of the shorter one is 30° . If the height of the taller tower is 150 m, the height of the shorter one is	A. 116 m B. 200 m C. 216 m D. None of these
9	The formula $a_n = a + (n-1)d$ for an A.P is called	A. nth term of an A.P B. Sum of first n terms C. A,M between a and b D. None of the above
10	Question Image	A. $\frac{\pi}{4}$ B. $\frac{\pi}{6}$ C. $\frac{\pi}{3}$ D. 0
11	The set of integers is a subset of	A. The set of natural numbers B. The set of whole numbers C. The set of prime numbers D. The set of rational numbers
12	Question Image	A. Polynomial of degree 0 B. Polynomial of degree 2 C. Quadratic equation D. None of these
13	The graph of linear equation $2x + 3y = 10$	A. Parabola B. Circle C. Hyperbola D. Straight line
14	The sixth term of the sequence 1,3,12,60....is	A. 1500 B. 72 C. 2160 D. 2520
15	The exponent of x in 10th term in the expansion of $(a+x)^n$	A. 10 B. 12 C. 11

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- 16 $3/4$ is _____
- A. An odd number
B. An even number
C. A natural number
D. A rational number
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- 17 If no two elements of ordered pair of a function from A into B are equal, then it is called
- A. surjective
B. injective
C. bijective
D. on to
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- 18 Question Image
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- 19 While writing his books on geometry, Euclid used
- A. inductive method
B. deductive method
C. implication
D. proposition
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- 20 Question Image
- A. 0
B. 1
D. -1
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