

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. mx B. x/m C. mx^{m-1} D. xm^{m-1}
2	Period of $\cos x$ is _____	
3	The fifth term of $(a+2x)^{17}$ is	A. $4013 x^3 a^{13}$ B. $2208 a^{13} x^{12}$ C. $223 x^7 a^{18}$ D. $38080 a^{13} x^{12}$
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 1 B. 7 C. 4 D. None of these
5	$x = \sin^{-1} 3$, then the value of $\sin x$ is	A. $\sqrt{3/2}$ B. 3 C. Not possible D. -1
6	How many arrangements of the letters of the word PAKISTAN can be made	
7	The points (3,1), (-2,-3) and (2,2) are the vertices of :	A. Equilateral triangle B. Isosceles triangle C. right -angled triangle D. rhombus
8	A fraction in which the degree of the numerator is greater than or equal to the degree of the denominator is called	A. A proper fraction B. An improper fraction C. An equation D. An identity
9	p, q, r and s are integers. If the A.M. of the roots of $x^2 - px + q = 0$ and G.M. of the roots of $x^2 - rx + s = 0$ are equal, then	A. q is an odd integer B. r is an even integer C. p is an even integer D. s is an odd integer
10	An indicated sum of terms of a sequence is represented by	A. S_n B. an C. $S(n)$ D. $\{S_n\}$
11	The differential equation representing the family of curves $y = A \cos(x + B)$, where A, B are parameters, is	
12	$\sqrt{25}$ is a number	A. Rational B. Irrational C. Natural D. Odd
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
14	If $l=1.5$ cm and $r=2.5$ cm, then $\theta=$	A. .3 radians B. .20 radians C. .5 radians D. .6 radians
15	The value of x for which the polynomials $x^2 - 1$ and $x^2 - 2x + 1$ vanish simultaneously is	A. 2 B. 1 C. -1 D. -2
16	A polynomial $P(x)$ has a factor $(x-a)$ if $P(a) =$	A. a B. x C. 1 D. 0
17	If two balls are drawn from a bag containing 3 white, 4 black and 5 red balls. Then the probability that the drawn balls are of different colours is	A. $1/66$ B. $3/66$ C. $19/66$ D. $47/66$

- 18 The area between the x-axis and the curve $y = x^2 + 1$ from $x = 1$ to 2 is:
- A. $15/6$
B. $15/4$
C. $10/4$
D. $10/3$
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- 19 A chimney is such that on walking towards it 50 m in a horizontal line through its base the angular elevation of its top changes from 30° to 45° . The height of the chimney is
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- 20  C. 16
D. None of these
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