

## ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The set of even prime numbers is	A. {2,4,6,8,10} B. {2,4,6,8,10,12} C. {1,3,5,7,9} D. {2}
2	Question Image	
3	n different objects can be arranged taken all at a time in _____	A. (n + 1)! ways B. (n - 1)! ways C. n! ways D. n ways
4	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	
5	The factorial of a positive integers is a (an)	A. Rational number B. Positive integer C. Real number D. None
6	Question Image	A. 1 B. -1 C. 5 D. 2
7	How many numbers are there between 103 and 750 which are divisible by 6	A. 125 B. 107 C. 108 D. 113
8	Any conditional and its contrapositive are	A. Equilavant B. Opposite C. Equal D. Not Equal
9	Inequalities have _____ symbol	A. 2 B. 3 C. 4 D. 1
10	Question Image	
11	A box containing 10 mangoes out of which 4 are rotter. Two mangoes are taken together from the box. If one of them is found to be good, the probability that the other is also good is	A. 1 / 3 B. 8 / 15 C. 5 / 13 D. 5 / 9
12	202.04 is an example of	A. Recurring decimals B. Non-recurring decimals C. Terminating decimals D. None of these
13	The modulus of 12-5i is:	A. 7 B. 13 C. $\sqrt{7}$ D. 119
14	20. 19. 18. 17= _____	
15	The equation $ x + 4  = x$ has solution	A. $x = -2$ B. $x = 2$ C. $x = -4$ D. $x = 4$
16	On simplifying the express in $\sin 2O/1 + \cos 2O$ the result is.	A. $\sin O$ B. $\cotan O$ C. $\tan O$ D. $\sec O$
17	$\sec h x =$ _____	
18	The area between the x-axis the curve $y = 4x - x^2$ is :	A. 32/2 B. 15 C. 18 D. ...

D. 21

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19 The order of the matrix A is  $3 \times 2$  and that of B is  $2 \times 3$ . The order of the matrix BA is

- A.  $3 \times 3$
- B.  $3 \times 2$
- C.  $2 \times 5$
- D.  $5 \times 2$

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20 The circular measure of the angle between the hands of a watch of 4 0'clock is

- A.  $\pi/2$
  - B.  $\pi/4$
  - C.  $2\pi/3$
  - D.  $\pi/6$
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