


## ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	A vertical pole is 8m high and the length of its shadow is 6m. The angle of elevation of the sun of the moment is	A. 57° B. -48° C. 27° D. 53°
2	The circular measure of the angle between the hands of a watch of 4 O'clock is	A. $\pi/2$ B. $\pi/4$ C. $2\pi/3$ D. $\pi/6$
3	If $y = 1/x^2$ then $dy/dx$ equals:	A. $-2x$ B. $x^{\sup>-3\sup>}$ C. $-2/x^{\sup>3\sup>}$ D. $-2x^{\sup>3\sup>}$
4	Which of the following are valid roots of $3x^3 - 8x^2 - 5x + 6$	A. -1 B. 3 C. 1 D. Both A and B
5	Question Image	
6	Question Image	A. Linear equation B. Quadratic equation C. Cubic equation D. None of these
7	The range of $y = \sin x$ is _____	A. [1, -1] B. [-1, 1] C. [0, -1] D. [- <span style='font-family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 248);'>&lt;i&gt;∞&lt;/i&gt;</span> <span style='font-family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 248);'>&gt;&lt;i&gt;∞&lt;/i&gt;</span> ]
8	It is not possible to find the exact value of	A. $\pi$ B. $\sqrt{9}$ C. $\sqrt[3]{27}$ D. $\sqrt{1}$
9	If n is any positive integer then $n^2 > n + 3$ for	
10	The sum of even coefficient in the binomial expansion is	A. $2^{\sup>n+1\sup>}$ B. $2^{\sup>n\sup>}$ C. $2^{\sup>n-1\sup>}$ D. 2n
11	If the sum of co-efficient in the expansion of $(a+b)^n$ is 4096, then the greatest co-efficient in the expansion is	A. 1594 B. 792 C. 924 D. 2924
12	Five engineering, four mathematics, two chemistry books are placed on a table at random. The probability that the books of each kind are all together is	
13	$n(n-1)(n-2) \dots (n-r+1) =$ _____	
14	$x^2 + x - 5 = 0$ is	A. A polynomial B. An inequality C. An identity D. None
15	Question Image	
16	The quadratic formula is	
17	Question Image	

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18 Which of the following diagrams represent into function?

19 

- A. Closure law of addition
- B. Associative law of addition
- C. Additive inverse
- D. Additive identity

20 How many arrangements of the letters of the word PAKISTAN cab be made

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