

## ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Every whole number is	A. A real number B. An irrational number C. A prime number D. A negative integer
2	Question Image	A. At B. -A C. A D. A-1
3	Question Image	
4	The product of the four fourth roots of unity is	A. 0 B. 1 C. -1 D. None of these
5	Question Image	A. 0 B. 1 D. -1
6	The third term in the expansion of $(1+2x)$ is	A. $-2x^2$ B. $-4x^2$ C. $2x^2$ D. $4x^2$
7	A number A is called the arithmetic mean between a and b if a, A, b is _____	A. Arithmetic sequence B. Geometric sequence C. Harmonic sequence D. Arithmetic sequence
8	If $a(p+q)^2 + bpq + c = 0$ and $a(p+r)^2 + 2bpr + c = 0$ , then $qr$ equals	A. $\frac{p^2 + c}{a}$ B. $\frac{p^2 + a}{c}$ C. $\frac{p^2 + c}{a}$ D. $\frac{p^2 - c}{a}$
9	Question Image	
10	The vector $i = [1,0]$ is called unit vector along:	A. x-axis B. y - axis C. z - axis D. Both a and y-axis
11	If $(1+x-2x^3)^6 = 1+a_1x + a_2x^2 + a_3x^3 + \dots$ the the value of $a_2 + a_4 + a_6 + \dots + a_{12}$ will be	A. 32 B. 31 C. 64 D. 1024
12	Question Image	D. None of these
13	For non-trival solution $ A $ is	A. $A = 0$ B. $A <sup>t</sup> >= 0$ C. $ A  = 0$ D. None of these
14	Question Image	
15	$\cos^{-1}(\cos x) =$	A. x B. $\cos x$ C. $x = 1/x$ D. $\cos <sup>-2</sup> x$
16	The next term of the sequence 1, 2, 4, 7, 11, ..... is.	A. 15 B. 16 C. 17 D. 18
17	Question Image	
18	Question Image	D. both a & c
19	$21 \ 256^0$	A. $<div>21<sup>o</sup>15'21"</div>$ B. $21<sup>o</sup>20'56"$

- C.  $21\sqrt{25'1''}$
- D.  $21\sqrt{25'6''}$

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Question Image