ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Any conditional and its contrapositive are	A. Equilavant B. Opposite C. Equal D. Not Equal
2	Which of the following is a vector	A. length B. momentum C. volume D. speed
3	$f(x) = 2^x + 3 \cdot 2^{2x} + 5$ is	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
4	If $0 = R$, then the additive inverse of a is	A. 1/9 B. 1/-9 C. a D. -a
5	Question Image	A. A prime number B. An integer C. A whole number D. An irrational number
6	Question Image	A. hypothesis B. implication C. consequent D. antecedent
7	AB is a vertical pole and C is its middle point. The end A is on the level ground and P is any point on the level ground other than A. the portion CB subtends and angle β at P. If AP : AB = 2 : 1 then β =	
8	When rational fraction is separated into partial fractions, the result is	A. an identity B. A fraction C. A partial sum D. Improper fraction
9	Question Image	
10	If the angle between two vectors with magnitude 6 and 2 is 60° when their scalar product is	A. 12 B. 6 C. 3 D. 0
11	If $f(x) = x^{-100}$ the value of $f^1 (1)$ is:	A. 100 B. -100 C. 0 D. -101
12	A circle which touches one side of a triangle extermally and the other two sides produced is called	A. In-circle B. Circumcircle C. e-circle D. Point circle
13	Tangent is ....function	A. Inverse B. one-one C. in-to D. Periodic
14	If n is any positive integer then $4^n > 3^n + 4$ is true for all	
15	Question Image	
16	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
17	What is the conjugate of -6 -i	A. -6 +i B. 6 + i C. -6 -i

		D. 6 -i
18	If f:A→B is an injective function and second elements of no two of its ordered pairs are equal, then f is called	A. 1-1 and onto B. Bijective C. 1-1 and into D. None of these
19	Which one the valid rood of $3x^3 - 8x^2 - 5x + 8 =$?	A. 4 B. 3 C. 8 D. A and B both
20	If Sin A = sin B, cos A = cos B, then the value of A in terms of B is	