ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	A. 2 B. 4 C. 8 D. 12
2	Domain of cos x is _____	
3	An experiment yields 3 mutually exclusive and exhaustive events A, B, C, if P(A) =2 and P(B) = 3. then P(C) =	A. 1 / 11 B. 2 / 11 C. 3 / 11 D. 6 / 11
4	Which one represents a sequence	A. an B. Sn C. a(n) D. {an}
5	If $a_1 = a_2 = 2$, $a_n = a_{n-1} - 1$ $(n > 2)$, then a_5 is	A. 1 B. 0 C. -1 D. -2
6	If $\forall a,b \varepsilon R$, then $a+b \varepsilon R$ is a property	A. Closure law of addition B. Associative law of addition C. Additive inverse D. Additive identity
7	The solution of the quadratic equation $x2 - 7x + 10 = 0$, is	A. 2 B. 5 C. 2,5 D. 7
8	Arithmetic mean between a and b is	
9	The number of x-intercepts of y= sin x in his period	A. 0 B. 1 C. 2 D. 3
10	1/2,1/3,1/4,1/5.....is	A. a geometric sec B. an arithmetic series C. finite sequence D. an infinite sequece
11	Some of two real numbers is also a real number , this property is called:	A. Commutative property w.r.t addition B. Closure property w.r.t. addition C. Associative property w.r.t. addition D. Distributive property w.r.t addition
12	If p, q, r and in A.P., a is G.M. between p and q and b is G.M. between q and r, then a^2, q^2, b^2 are in	A. A.P. B. G.P. C. H.P. D. None of these
13	Question Image	A. Only one real solution B. Exactly three real solution C. Exactly one rational solution D. Non-real roots
14	If the sum of two unit vectors is a unit vector the the magnitude of their difference is	A. √2 B. √3 C. 1 D. None of these
15	If a,b,c are in arithmetic progression, then 1/a,1/b.1/c are in	A. A.M B. G.M C. H.M D. G.P
16	Question Image	A. Closure law of addition B. Closure law of multiplication C. Commutative law of addition D. Commutative law of multiplication

17	The area enclosed between the graph $y = x^2 - 4x$ and the x- axis is:	A. 20/3 B. 41/3 C. 32/3 D. 25/3
18	Question Image	A. x =0, y =4 B. x = -1, y = 2 C. x = 2, y = 3 D. x = 3, y = 4
19	The range of the principle cos function is	
20	Question Image	A. A complex number B. A rational number C. A natural number D. An irrational number