ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	If x-2 and x-1 both are factors of $x^3-3x^3+2x-4p$, then P must equal to	A. 1 B. 2 C. 0 D. -2
2	Question Image	A. A B. A' C. U D. None of these
3	The general term of a sequence is denoted by	A. a₁ B. a_n C. n D. s_n
4	Sum of two quantities is at least 20 is denoted by	A. x +y =20 B. x +y≥ 20 C. x +y≠ 20 D. x +y≤20
5	Question Image	A. An empty set B. Universal set C. A singleton set D. None of these
6	Question Image	
7	G = {e, a, b, c} is an Abelian group with e as identity element The order of the other elements are	A. 2,2,2 B. 3,3,3 C. 2,2,4 D. 2,3,4
8	There will be no inverse if the function is	A. one -to - one B. One to many C. onto D. into
9	PQ is a post of given height a, and AB is a tower at some distance;$\alpha$and$\beta$are the angles of elevation of B, the top of the tower, at P and Q respectively. The height of the tower and its distance from the post are	
10	If $f(x) = x^2-x$ then f(1) is	A. 0 B. 1 C. 2 D. 3
11	If n is any positive integer then $n! > 2^{n-1}$for	
12	Question Image	
13	A matrix with a single column is called	A. Column matrix B. Row matrix C. Identity matrix D. Null matrix
14	e-radii are denoted by	A. η B. r2 C. r3 D. All of these
15	∀a,b,c∈R and c>0,then	A. a>b ⇒ ac < bc B. a>b ⇒ ac > bc C. a<b ⇒ ac > bc D. None of these
16	A tower subtends an angle of 30° at a point distant d from the foot of the tower and on the same level as the foot of the tower. At a second point, h vertically above the firs, the angle of depression of the foot of the tower, is 60°. The height of the tower is	A. h/3 B. h/3d C. 3h D. 3h / d
17	∀ z ∈ C, multipliucative is	A. (1,1) B. (1,0) C. (0,1)

		D. None of these
18	5 unbiased coins coins are tossed simultaneously. The probability of getting at least one head is	A. 1 / 32 B. 31 / 32 C. 1 / 16 D. None of these
19	sn (2sin-10.8)	A. 0.56 B. 0.69 C. -0.16 D. 0.96
20	The unit vector along z-axis is	D. none of these