ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The number of 5-digit number that can be formed from the digits 1,2,4,6,8, when 2 and 8 are never together is	A. 72 B. 48 C. 144 D. 20
2	Period of tan x is _____	
3	The circular measure of the angle between the hands of a watch of 4 0'clock is	A. π/2 B. π/4 C. 2π/3 D. π/6
4	If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the curve of intersection is	A. an ellipse B. a circle C. a parabola D. a hyperbola
5	Question Image	
6	Question Image	
7	Question Image	
8	$x = \sin^{-1} 3$, then the value of sin x is	A. √(3/2) B. 3 C. Not possible D. -1
9	$(x^3-1/2x)^6$ is	A. 15/16 x² B. 2/13 x² C. 17/7 x² D. 16/15 x²
10	Which of the following is surjective	
11	Which one is not defined $\forall n \in Z+$	A. -n! B. n! C. (-n)! D. n!+0!=n!+1
12	$\forall x,y \in R$ and x> 0 , y>0, if x > y	D. None of these
13	$(0.90)^{1/2}$ is equal to	A. 0.99 B. 0.90 C. 0.80 D. 0.88
14	The positive integer just greater than $(1+0.0001)^{10000}$ is	A. 4 B. 5 C. 2 D. 3
15	Which of the following is a scalar.	A. electric field B. magnetic field C. weight D. mass
16	The roots of (b-c)x2+(c-a) x+a-b=0 are equal if	A. 2b = a+c B. 2a = b+c C. 2c = a+b D. a + b + c =0
17	Multiplicative inverse of "1" is	A. 0 B. ±1 C. 1 D. {0,1}
18	If sided of□ABC are 16,20,and 33, then the value of the greatests angle to	A. 150□ 20' B. 132□ 35' C. 101□ 25' D. 160□ 50'
		A. true

19	If p is false, ~ p is	B. not true C. equal to p D. conjuction
20	Matrices A = [aij] 2 x 3 and B = [bij] 3 x 2 are suitable for	A. BA B. A2 C. AB D. B2