ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Identity w.r.t intersection in a power set of any set is	A. ⌀ B. Set itself C. Singleton set D. {0}
2	The distance of a point (x cosθ , x sinθ) from origin is:	A. x B. x tanθ C. -tanθ D. -cotθ
3	A Series which does not coverage to a Unique sum is called	A. Harmonic Series B. Oscillatroy Series C. Arithmetic Series D. None of these
4	a + x is _____	A. A trinomial B. A binomial C. A monomial D. None of these
5	If two balls are drawn from a bag containing 3 white, 4 black and 5 red balls. Then the probability that the drawn balls are of different colours is	A. 1 / 66 B. 3 / 66 C. 19 / 66 D. 47 / 66
6	Domain of tan x is _____	
7	Question Image	A. 1 B. -1 C. 0 D. None of these
8	Which of the following has the same value as i113	A. i B. -1 C. -i D. 1
9	Question Image	
10	The roots of ax2+bx+c=0 are	A. Rational ⇔ b2 -4 ac ≥ 0 B. Irrational ⇔ b2-4 ac > 0 C. Real ⇔ b2-4 ac ≠ 0 D. Rational⇔ b2-4 ac = 0
11	Question Image	A. A prime number B. An integer C. A whole number D. An irrational number
12	The set of cartesian product A x B consists of	A. Domain B. Range C. Binary relation D. Ordered pair
13	A particle moving in a straight line with velocity V = (4-t2) where t is the line from a fixed point. The acceleration of the particle after 4 sec is.	A. -8 m/ sec² B. -4 m/sec C. -8m/sec D. -4m/sec2
14	Question Image	
15	If Projvu = Projuv, then	A. Uand vare parallel B. |u|=|v| C. Uandvre perpendicular D. One ofuorv
16	Fifteen girls compete in a race. The first three places can be taken by them in	A. 3! ways B. 12! ways C. 15 x 14 x 13 ways D. 42 ways
17	Which of the following us a scalar	A. displacement B. velocity C. acceleration

		D. density
18	Question Image	
19	Graph of the question $x^2+ y^2= 4$ is	A. A circle B. An ellipse C. A parabola D. A square
20	Question Image	A. a²b²c² B. 4a²b²c² C. 4abc D. None