Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	120°=_____	
3	Question Image	A. 1 B. 0
4	If the roots of ax^2+ b = 0 are real and distinct then	A. ab > 0 B. a = 0 C. ab < 0 D. a > 0, b > 0
5	Question Image	
6	The solution of equation x2 + 2 = 0 in the set of real number is	A. Infinite set B. Singleton set C. Null set D. None of these
7	Which of the following function form 1 to itself are bi-jective	A. F(x) = x + 3 B. F(x) = x⁵ C. F(x) = 3x + 2 D. F(x) = x²+ x
8	Question Image	A. 11 B. 61 D. 1
9	For any positive integer n	A. ABn = Bn A ⇔ AB = BA B. ABn = Bn A⇔ A,B are square matrices and AB = BA C. ABn = BnA⇔ A + B D. ABn = BnA ⇔ A and B are square matries
10	With usual notations b2 = a2 + c2 -2ac cos is called_____;	A. None of these B. Law of sines C. Law of consines D. Law of tangents
11	A line segment whose end points lie on a circle is called	A. The secant of the circle B. The arc of the circle C. The chord of the circle D. The circumference of the circle
12	The solution of the equation 3 $\tan^2 x$ = 1 is _____	D. none of these
13	Every recurring decimal represents	A. A natural number B. A rational number C. An irrational number D. A whole number
14	Question Image	
15	Sum of all the four forth roots of unity is	A. 1 B. -1 C. i D. 0
16	Question Image	
17	The sum of infinite numbers of terms of an arithmetic series is	A. Finite B. Infinite C. May or may not finite D. None of these
18	If y = sin (ax + b), then fourth derivative of y with respect to x =	A. a⁴cos (ax + b) B. a⁴sin (ax + b) C. -a⁴sin (ax + b) D. a⁴tan (ax + b)
19	In R the number of identity elements w.r.t.'.' is	A. One B. Two C. Three

		D. Four
20	Question Image	