Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. x³ B. 3x² C. 3x D. 3
2	sin (sin^{-1}(1/2))=	A. 0 B. 2 C. ∞ D. 1/2
3	The common ration of a geometric sequence cannot be	A. 0 B. 1 C. 2 D. 3
4	Question Image	A. 0 B. 1 C. 2 D. 3
5	Question Image	
6	The standard form of the quadratic function f(x) = -x^2 +4x+2, is	A. (x-2)²+6 B. -(x-2)² + 6 C. (x-3)²+5 D. (x+4)²-7
7	for n€ N, 3^{2n+7} is divisible by	A. 7 B. 8 C. 9 D. 10
8	Question Image	
9	For any set X, X∪X is	A. X B. X' C. Φ D. Universal Set
10	s > t then	A. (s - t)²> (t - s) ² B. (s - t)²< (t - s) ² C. (s - t)²= (t - s) ² D. None
11	Digit in the unit place of the number 183! + 3^{183}	A. 7 B. 6 C. 3 D. 0
12	Two cards are drawn at random without replacement. the probability that the first is a king and second is not a king is	A. 48 / 663 B. 24 / 663 C. 12 / 663 D. None of these
13	If n is any positive integer then 4^n>3^n+ 4 is true for all	
14	The value of x for which the polynomials x2 - 1 and x2 -2x + 1 vanish simultaneously is	A. 2 B. 1 C. -1 D. -2
15	The value of x, and y, when (x + iy)^2= 5 + 4i	A. X = 2, y = -1 B. X = -2, y=1 C. X = 2, y = -1 D. X = 2, y = 2
16	Question Image	A. 3/8 B. 7/8 C. 1/8 D. None

17	For which of the following ordered pairs (s, t) is s + t > 2 and s - t < -3?	A. (3, 2) B. (2, 3) C. (1, 8) D. (0, 3)
18	The centroid of a triangle divides each median in the ratio	A. 2 : 1 B. 3 : 1 C. 3 : 2 D. 1 : 1
19	Fundamental law is	
20	For all points (x,y) on x-axis	A. x is positive B. x is negative C. y = 0 D. y is negative