Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Which of the following is a scalar	A. weight B. force C. speed D. momentum
2	Question Image	A. 45° B. 30° C. 75° D. 60°
3	The period of cosec 10x is _____	
4	The general equation of a circle is	
5	If the pth, qth, and rth terms of an A.P. are in G.P:., then the common ratio of the G.P. is	
6	Question Image	A. 4 B. 3 C. 2 D. 1
7	Area of the circle with ends of a diameter at (-3,2) and (5,-6)	A. 128π sq. units B. 64π sq. units C. 32π sq.units D. None of these
8	Find the next two terms of 7, 9, 12, 16,...	A. 18, 20 B. 19, 22 C. 20, 25 D. 21, 27
9	Name the property used in 1000 x 1 = 1000	A. additive inverse B. multiplicative inverse C. additive identity D. multiplicative identity
10	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
11	The distance between two points $P(x_1, y_1)$ and $Q(x_2, y_2)$ is	
12	Two positive integers whose sum is 30 and their product will be maximum are	A. 12,18 B. 10,20 C. 15,15 D. 14,16
13	Sin -1 x=	A. sin(π/2-x) B. Sin-1 (π/2-x) C. π/2-cos-1x D. π/2 + cos-1x
14	The lines l1 and l2 intersect. The shortest distance between them is	A. Positive B. Negative C. Zero D. Infinity
15	{0} is a	A. Empty set B. Singleton set C. Zero set D. Null Set
16	Question Image	A. Only one real solution B. Exactly three real solution C. Exactly one rational solution D. Non-real roots
17	A kite flying at a height of 67.2 m is attached to a fully stretched string inclined at an angle of 53 to the horizontal, the length of the string	A. 62m B. 82m C. 73m D. 57m
		A. 16

18	Arithmetic mean between 14 and 18 is	B. 1/ C. 15 D. 32
19	A number A is said to be the A.M between the two numbers a and b if a, A, b are in	A. A.M B. A.P C. G.P D. G.M
20	(1+w)(1+w2)(1+w4)(1+w8)....50 factors	A. 0 B. -1 C. 1 D. 2