Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	A fraction in which the degree of the numerator is greater than or equal to the degree of the denominator is called	A. A proper fraction B. An improper fraction C. An equation D. An identity
2	The set R is _____ w.r.t subtraction	A. Not a group B. A group C. No conclusion drawn D. Non commutative group
3	A tower subtends an angle of 30° at a point distant d from the foot of the tower and on the same level as the foot of the tower. At a second point, h vertically above the firs, the angle of depression of the foot of the tower, is 60°. The height of the tower is	A. h/3 B. h/3d C. 3h D. 3h / d
4	x = _____ is in the solution of 2x - 5 > 0	A. 0 B. 2 C. -2 D. 3
5	A key ring is an example of	A. Permutation B. Circular permutation C. Combination D. None
6	If A, G, H are the arithmetic, geometric and harmonic means between a and b respectively then A, G, H are in	A. A. P. B. G. P. C. H. P. D. None of these
7	When we expand $(a + 2b)^5$then	A. a⁵+ 10a⁴b + 40a³b²+ 80a²b³+ 80ab⁴+ 32b⁵ B. a⁵+ a⁴b + a³b²+ a²b³+ ab⁴+ b⁵ C. 5a⁵+ 4a⁴b + 3a³b²+ 2a²b³+ 1 ab⁴+ b⁵ D. None
8	sin $(\sin^{-1}(1/2))$=	A. 0 B. 2 C. ∞ D. 1/2
9	If a +b +c =0 then which of the following is true	A. a =b =c =0 B. a,b =b,c =c,a C. a xb=b xc =c xa D. None
10	Question Image	
11	For f(x) = x2, what is the value of f(a) +f (-a) in terms of a?	A. 3a2 B. 2a2 C. 2a D. -7a
12	Question Image	A. 30° B. 60° C. 45° D. None of these
13	Period of sin x is	
14	64.A point (x, y, z) moves parallel to xy plane. Which of the three variables x, y, z remain fixed?	A. z B. x C. y

		D. x and y
15	Question Image	
16	Sin 270° = _____	A. -1 B. 0 C. 1 D. Undefined
17	Question Image	
18	Question Image	
19	The set {1,-1, i, -i} form a group under	A. Addition B. Multiplication C. Subtraction D. None
20	How many arrangements of the letters of the word MI SSI PPI, taken all together can be made?	