Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The total cost of 2 apples and 3 oranges is $1.70, which of the following is true	A. The cost of one apple B. The cost of one orange C. Both have equal cost per item D. Cost of each single item can not be determined
2	If c = 2i+j+k and d= -1 + 4j +2k, then [c-d]=	A. √7 B. √41 C. √19 D. √(2&7)
3	The system of measurement in which the angle is measured in radians is called the	A. circular system B. CGS system C. sexagesimal system D. none of these
4	Question Image	
5	∀x,y∈ R and x < 0, y < 0, which one is true	A. xy < o B. xy = o C. xy > o D. None of these
6	Range of cot$\theta$is	A. (+∞to -∞) B. (-1 to +1) C. (-5 to +5) D. Set of even numbers only
7	Question Image	A. 360° B. 180° C. 90° D. None of these
8	Question Image	A. 0 B. 1 C. 8 D. ∞
9	sin -1(sin2π/3) =	A. π/2 B. 2π/3 C. -3π/2 D. π/3
10	When a selection of object is made without paying regard to the order of selection, it is called	A. Sequence B. Series C. Combination D. Permutation
11	The identity element of a set X with respect to intersection in P(x) is	A. X B. Does not exist C. ⌀ D. None of these
12	Question Image	
13	The roots of the equations will be equal if b^2- 4ac is	A. Positive B. Negative C. 1 D. Zero

14	If the vertex of the parabola is the origin and directrix is x+5 = 0 . then its latus rectum is:	A. 10 B. 5 C. 0 D. 20
15	The three noncollinear points through which a circle passe are known, then we can find the:	A. Variables x and y B. Value of x and c C. three constants f,g and c D. inverse of the circle
16	Question Image	
17	The probability that a person A will be alive 15 years hence is 5/7 and the probability that another person B will be alive 15 years hence is 7/9. Find the probability that both will be alive 15 years hence	A. 4/63 B. 5/9 C. 45/49 D. None of these
18	The set of integers is a subset of	A. The set of natural numbers B. The set of whole numbers C. The set of prime numbers D. The set of rational numbers
19	Question Image	
20	Matrices A = [aij] 2 x 3 and B =[bij] 3 x 2 are suitable for	A. BA B. A² C. AB D. B²