Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If n is any positive integer then n! > $n^2$for	
2	If S and P are the sum and the product of roots of a quadratic equation, then the quadratic equation is	A. x²+ Sx - P = 0 B. x²- Sx + P = 0 C. x²- Sx - P = 0 D. X²+ Sx + P = 0
3	To express a single rational fraction as a sum of two or more single rational fractions which are called	A. improper fractions B. Partial fractions C. mixed form D. Polynomials
4	Every real number is	A. A complex number B. A rational number C. A natural number D. A prime number
5	A combination lock on a suitcase has 3 wheels each labeled with nine digits from 1 to 9. If an opening combination is a particular sequence of three digits with no repeats, the probability of a person guessing the right combination is	A. 1 / 500 B. 1 / 504 C. 1 / 252 D. 1 / 250
6	Question Image	A. cos 3x + c B. - cos 3x + c
7	Question Image	A. Orthogonal B. Involutary C. Idempotent D. Nilpotent
8	graph of trigonometric function y = sec x does not meet	A. x - axis B. y -axis C. both axis D. None of these
9	Cycle tyres are supplied in lots of 10 and there is a chance if 1 in 500 tyres to be defective. Using Poisson distribution, the approximate number of lots containing no defective tyre in a consignment of 10, 0000 lots is	A. 9028 B. 9208 C. 9802 D. 9820
10	Domain of cosec$\theta$is	
11	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
12	Question Image	A. 0 B. 1 C. 2 D. 4
13	Question Image	
14	Question Image	
15	1 radian = _____	A. 180° B. 90° C. 57.296° D. 60°
16	The Principal value of sin-1 (-1/1/2)	A. π/2<o:p></o:p> B. -π/2<o:p></o:p> C. π<o:p></o:p> D. -π<o:p></o:p>
17	if f(x) = x^3 -3x^2 +5x -1, then f(-√2)=	A. 7+7√2 B. 3+3√2 C. -7-7√2

		D. -3-3√2
18	Let the equation $ax^2 - bx + c = 0$ have distinct real roots both lying in the open interval (0, 1) where a, b, c are given to be positive integers. Then the value of the ordered triplet (a, b, c) can be	A. (5, 3, 1) B. (4, 3, 2) C. (5, 5, 1) D. (6, 4, 1)
19	120° degrees are equal to how many radians?	
20	The common point to four standard parabolas	A. Focus B. Centre C. Vertex D. P(x,y)