Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. Trichotomy property B. Additive property of inequality C. Transitive property D. Multiplicative property
2	Distance between A(3, 8), B(5, 6) is	
3	The area of the circle centred at (1,2) and passing through (4,6) is	A. 30 πsq.units B. 5π sq.units C. 15π sq.units D. 25π sq.units
4	Cofactor of an element aij denoted by Aij is	A. (-2)i+j B. Mij C. (-1)i+j Mij D. None of above
5	The number z so that the triangle with vertices A(1,-1,0),B(-2,2,1)and C(0,2,z) is a right triangle with right angle at vertex C	A. 1,2 B. -1,-2 C. 2,-1 D. -2,1
6	A circle passing through the vertices of any triangle is called	A. Circumcirle B. Incircle C. Escribed circle D. Unit circle
7	What is the period of tan 4/3 x =?	A. π/4 B. 4π/3 C. 7π/4 D. 3π/4
8	If u =[3,-4],then modulus of uis:	A. 5 B. 5i C. -5 D. √5
9	If a statement S(n) is true for n = 1 and the truth of S(n) for n = k implies the truth of S(n) for = k + 1, then S(n) is true for all	A. Real numbers n B. Integers n C. Positive integers n D. None of these
10	In one hour, the hour hand of a clock turns through	
11	The system of measurement in which the angle is measured in degrees, minutes and seconds is called the	A. circular system B. CGS system C. sexagesimal system D. none of these
12	Find the geometric mean between 4 and 16	
13	For≥ -2 , 1+3+5+.....+(2n+5)	A. (n+2)² B. (n-2)² C. 2n+1 D. (n+3)²
14	The period of sin x/2 = Cos x/3 is	A. 2p B. 12p C. 13p D. 7p
15	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
16	Range of sin x is _____	A. [-1, 1] B. R C. Negative real numbers D. None of these
17	Question Image	A. 1 B. -i C. i

		D. 0
18	Question Image	A. l3 B. rl3 C. r D. none
19	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
20	In one hour, the hour hand of a clock turns through	