Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. -1 C. 1
2	The area of sector with central angle of 1 radians in a circular region whose radius is 2 m is	
3	Question Image	A. 0 B. 3 C. 9 D. -3
4	Question Image	
5	Question Image	A. 1 B. 2 C. 3 D. None of these
6	The centre fo the circle $x^2+ y^2+ 12x -10 = 0$ is	A. (12, -10) B. (6, -5) C. (-12, 10) D. (-6, 5)
7	Question Image	
8	If a,b,c are unit vectors then |a + b|2 +|a - b|2	A. 4 B. 8ab C. 9cos D. 4(a,b)
9	The coefficient of x^{10}in the expansion $(x^3+3/x^2)^{10}$is	A. 1700 B. 17023 C. 17027 D. 17010
10	Question Image	D. all are correct
11	Question Image	
12	O is _____	A. A positive integer B. A negative integer C. A natural number D. An integer
13	Question Image	A. Principle of equality of fractions B. Rule for product of fraction C. Rule for quotient of fraction
14	By expressing cos 113° in terms of trigonometrical ratios, answer will be	A. −cos 76° = -0.7093 B. −cos 65° = -0.4258 C. −cos 67° = -0.3907 D. −cos 62° = -0.8520
15	The distance of the point (2.3) from x-axis is	A. 2 B. 3 C. 5
16	Question Image	A. One-to-one and onto B. One-to-one but not on to C. Onto but not one-to-one D. Neither one-to-one nor onto
17	How many comittees of 5 numbers can be chosen from a group of 8 players person when each committee must include 2 particular persons	A. 8! B. 5!3! C. 5! D. 20
18	cos(a +β)-cos(a-β) = _____;	A. 2cosa cosβ B. 2sina cosβ C. -25 in a cosβ

		D. -2sin a sinβ
19	(2, 1) is in the solution of the inequality	A. 2x + y <u>></u> 7 B. x - y > 2 C. 3x + 5y < 6 D. 2x + y < 6
20	Multiplying each side of an inequality by (-1) will:	A. Not effect B. Change the sign C. Become zero D. Not defined