Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. Associate law of addition **B. Commutative law of addition** C. Additive identity D. Closure law of addition
2	If u = xi + yj, then|u|	A. $x^2 + y^2$ B. $(x^2 + y^2)^2$ C. $x^2 - y^2$ **D. $\sqrt{(x^2 + y^2)}$**
3	The area of circle of unit radius =	A. 0 B. 1 C. 4 **D. π**
4	$(1 + 2x)^4 =$ _____	A. $1 + 4x + 6x^2 + 4x^3 + x^4$ B. $1 - 4x + 6x^2 - 4x^3 + x^4$ C. $1 - 8x + 24x^2 - 32x^3 + 16x^4$ **D. $1 + 8x + 24x^2 + 32x^3 + 16x^4$**
5	The equation of vertical asymptotes of y = cos ecx is	**A. x = 0** B. y = 0 C. x =∞ D. y =∞
6	Question Image	A. 1 **B. -i** C. i D. 0
7	The equation $x^2 + y^2 - 8x + 6y + 25 = 0$ represents	A. A circle B. A pair of straight lines **C. A point** D. None of these
8	Question Image	**D. all**
9	$x^3 + 2x^2 - 3x + 5$ is _____	A. An equation **B. A polynomial** C. Proper rational fractions D. Improper rational fractions
10	The point (1,3) is one solution of	A. 3x + 5y > 29 **B. 3x + 5y < 7** C. x + 2y < 4 D. x + 4y > 3
11	The order of the matrix A is 3 x 2 and that of B is 2 x 3. The order of the matrix BA is	**A. 3 x 3** B. 3 x 2 C. 2 x 5 D. 5 x 2
12	The central angle of an arc of a circle whose length is equal to the radius of the circle is called one	A. Degree B. Second C. Minute **D. Radian**
13	Given two independent event A and B such that P(A) = 0.30 and P(B) = 0.60. Probability of getting neither A nor B is	**A. 0.28** B. 0.13 C. 0.12 D. 0.42
14	The lines that form the cone are called its:	**A. Generation** B. Circular cone C. nappes

D. conics

15	Question Image	
16	If the angle between two vectors with magnitude 6 and 2 is 60° when their scalar product is	A. 12 B. 6 C. 3 D. 0
17	A box contains 10 red 30 white and 20 black marbles When a marble is drawn at random the probability that it is either red or white is	A. 1/6 B. 1/3 C. 1/2 D. 2/3
18	Question Image	A. (3, 1, -2) B. (3, -2, 1) C. (2, -1, 3) D. (-1, -2, -3)
19	The inclination of a line parallel to x-axis is	
20	Question Image	A. Polynomial B. Equation C. Improper rational fraction D. Proper rational fraction