Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The multiplicative inverse of x such that x = 0 is	A. -x B. Does not exist C. 1/x D. ±1
2	Question Image	
3	Question Image	
4	If $A(x_1, y_1)$, $B(x_2, y_2)$ and $C(x_3, y_3)$ are the vertices of a triangle then its centroid is	
5	If n is any positive integer then n! > $n^2$for	
6	What is range of the function g (x) =|x-3|?	A. [0 ,∞) B. (0 ,∞) C. (-∞ ,3] D. [0,∞)
7	A fraction in which the degree of the numerator is less than the degree of the denominator is called	A. Polynomial B. Equation C. Proper fraction D. Improper fraction
8	If 3x4 +4x3+x5is divided by x+1 , which of the following is the remainder	A. 7 B. -2 C. 6 D. 1
9	w^{15}= _____	A. 0 B. 1 C. w D. w²
10	5 unbiased coins coins are tossed simultaneously. The probability of getting at least one head is	A. 1 / 32 B. 31 / 32 C. 1 / 16 D. None of these
11	(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
12	The roots of the equation will be irrational if b^2- 4ac is	A. Positive and perfect square B. Positive but not a perfect square C. Negative D. Zero
13	Question Image	A. c/a B. -c/a C. b/a D. -b/a
14	Question Image	
15	Question Image	
16	If A and B are two matrices such that AB = B and BA =A, then A^2+ B^2=	A. 2 AB B. 2 BA C. A + B D. AB
		A. sin<span style="font-family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text- align: center; background-color: rgb(255, 255, 224);">α cosβ- cosαsin<span style="font-family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center;

17	sin (α -β)=	background-color: rgb(255, 255, 224);">β B. sinα cosβ+ cosαsinβ C. sinα cosα- cosβsinβ D. sinα cosα- cosβsinβ
18	An A.P., a G.P. and a H.P. have the same first and last terms and the same odd numbers of terms, the middle terms of the three series are in	A. A.P. B. G.P. C. H.P. D. None of these
19	If the focus lies on the y-axis with coordinates f(0,a) and directrix of the parabola is y = -a, the equation of parabola is:	A. y² = -4 ax B. x² = 4ay C. x² = -4ay D. y² = 4ax
20	The value of p for which both the roots of the equation 4x2- 20x + (25p2+ 15 p - 66) = 0 are less than 2, lies in	