Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	
3	The angle between the vectors $\underline{u}$ = [-3 , 5] and $\underline{v}$ = [6 , -2] is:	A. $\pi/2$ B. $-3\pi/2$ C. π D. None of these
4	$f(x) = 3x^4 - 2x^2 + 7$ is:	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd
5	The first three terms in the expansion of $(1 - x)^{-1}$ are	A. $1 + x + x^2$ B. $1 - x - x^2$ C. $-1 - x + x^2$ D. $1 - x + x^2$
6	If n is any positive integer then $n! > n^2$ for	
7	If a_1, r and a_n are the first term, common ratio and the nth term respectively of a G. P. then a_n=	A. $a_1 r^n$ B. $a_1 r^{n-1}$ C. $a_1 r^{n+1}$ D. $a_1 r$
8	Question Image	
9	Question Image	
10	A point where two of its boundary lines intersect is called	A. Corner point B. Feasible point C. Vertex D. Feasible solution
11	Question Image	A. 0 B. 1 C. -1 D. None of these
12	The roots of the equation $x2 + 6x - 7 = 0$, are	A. 1 B. 2 C. 1 and -7 D. -7
13	The distance of the point (-2 , 3) from y-axis is	A. 2 B. -2 C. 3 D. 1
14	Question Image	A. 1 B. 2 C. 3
15	an - an-1 will be common difference in an A.P if	A. $n = 1 \forall n \in N$ B. $n > 1 \wedge n \in N$ C. $n \in Z$ D. None of the above
16	Question Image	A. $x^3 - x^2 + x + c$ B. $6x - 2 + c$ C. $x^3 - 2x + c$
17	For each natural number n, n (n+1) is	A. an even B. an odd C. multiple of 3 D. Irrational
18	An equation in which at least one term contains dy/dx, $d^2 y /dx^2$ etc, is called.	A. Differential equation B. Initial condition C. General solution D. Singular equation

19	No term of a harmonic sequence can be	A. 0 B. 1 C. 2 D. 3
20	Union of the sets of rational and irrational numbers is called 6th set of	A. Natural numbers B. Real numbers C. Whole numbers D. Prime numbers