Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. A B. B C. U D. None of these
2	If a_1= 3, r = 2, then the nth term of the G.P. is	A. 2.3ⁿ⁻¹ B. 3.2ⁿ C. 3.2ⁿ⁺¹ D. 3.2ⁿ⁻¹
3	Question Image	
4	Question Image	
5	Question Image	C. 2x D. 2
6	In the expansion of $(a + x)^n$the sum of exponents of a and x in each term of the expansion is	A. n + 1 B. n - 1 C. n D. 2n
7	If a,β are the roots of ax2+bx+c=0,the equation whose roots are doubled is	A. ay2 +2by+c=0 B. ay2+2by+4c=0 C. ay2+2by+c=0 D. ay2+by+4c=0
8	Question Image	
9	The null vector is regarded to be perpendicular to	A. Every vector B. In some cases C. Both a b D. None
10	The locus of the centre of a circle which touches two given circles externally is:	A. a hyperbola B. an ellipse C. a circle D. a parabola
11	*i* is equal	A. (1 , 0) B. (0 , 1) C. (1 , 1) D. (0 , 0)
12	Question Image	
13	The range of the principle cos function is	
14	The solution of differential equation:	A. dy/dx+y/x = x²is : B. 4xy = x⁴+ c C. 4x = x⁴= c D. 4 y = x⁴+ c E. 4x=4x³ + c
15	Question Image	D. none of these
16	Question Image	A. (3, 1, -2) B. (3, -2, 1) C. (2, -1, 3) D. (-1, -2, -3)
17	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
18	Period of tan x is _____	
19	x = -1 is in the solution of the inequality	A. x + 5 < 0 B. 2x + 3 <u><</u> 0 C. x > 0 D. 2x + 3 > 0
		A. -<span style="color: rgb(34, 34,

20	The solution set of x < 4 is	34); font-family: "Times New Roman"; font-size: 24px; text-align: center; background-color: rgb(255, 255, 248);">∞ < x < 4 B. -∞ > x > 4 C. -∞ < x < 2 D. -∞ > x > 2