Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The integral of $3x^5dx$ is:	A. 15 x⁴ B. x⁶/2 C. 1/6x⁵ D. x⁵/ln3
2	Question Image	A. One-one but not onto B. One-one and onto C. Onto but not one-one D. Neither one-one nor onto
3	Question Image	
4	The points (5, 0, 2), (2, -6, 0), (4, -9, 6) and (7, -3, 8) are vertices of a	A. Square B. Rhombus C. Rectangle D. Parallelogram
5	The parabolay2=4ax open up if	A. a<0 B. a≠0 C. a>0 D. All are incorrect
6	The set {-1,1} is closed under the binary operation of	A. Addition B. Multiplication C. Subtraction D. Division
7	-2, 1, 4, 7,.... is _____	A. Harmonic sequence B. Arithmetic sequence C. Geometric sequence D. Arithmetic series
8	$¡^{101}$=	A. i B. i² C. -i D. -1
9	Question Image	
10	Question Image	C. 0 D. 1
11	x is a member of the set [-1, 0, 3, 5] y is a member of the set {-2, 1, 2, 4} which is possible?	A. x - y = -6 B. x - y < -6 C. x - y > -6 D. None
12	Question Image	B. sin 2x + c C. -sin 2x + c
13	The sum of coefficients in the binomial expansion equals to	A. 2 B. 2ⁿ⁺¹ C. 2ⁿ⁻¹ D. 2ⁿ
14	The solution set of x < 4 is	A. -∞ < x < 4 B. -∞ > x > 4 C. -∞ < x < 2 D. -<span style="font-family:

		"Times New Roman";" font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 248);">∞ > x > 2
15	Each point of the feasible region is called	A. Solution B. feasible solution C. Both a & b D. None
16	If sided of□ABC are 16,20,and 33, then the value of the greatests angle to	A. 150□ 20' B. 132□ 35' C. 101□ 25' D. 160□ 50'
17	sin(a + β)+sin(a -β) =_____;	A. 2cosa cosβ B. 2sina cosβ C. 2cosa sinβ D. -2sina sinβ
18	If a, b, c are the measures of the sides of a triangle then	
19	Z is a group under	A. Subtraction B. Multiplication C. Addition D. None of these
20	The two lines y = 2x and x =2y are	A. Parallel B. Perpendicular C. Equally inclined with axes D. Congruent