Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	For the equation $\|x^2\| + \|x\| -6 =0$, the roots are	A. One and only one real number B. Real with sum one C. Real with sum zero D. Real with product zero
2	Every set is an improper subset of	A. Empty set B. Equivalent set C. Itself D. Singleton set
3	The slope of the tangent of the circle $x^3 + y^3 =25$ at (4,3) is:	A. -4/5 B. 4/3 C. -25/4 D. 25/3
4	w^{73}= _____	A. 0 B. 1 C. w D. w²
5	Cos 0° = _____	A. -1 B. 0 C. 1 D. Undefined
6	The sum of first 60 natural numbers is	A. 1830 B. 3660 C. 1640 D. 1770
7	The angle of elevation of a tower from a point A due south of it is x and from a point B due east of A is y. If AB = 1, then the height h of the tower is given by	
8	For trival solution |A| is	A. A B. |A| = 0 C. A = 0 D. |A|≠ 0
9	In school there are 150 students Out of these 80 students enrolled for mathematics class 50 enrolled for English class and 60 enrolled for Physics class The student enrolled for English cannot attend any other class but the students of mathematics and Physics can take two courses at a time Find the number of students who have taken both physics and mathematics.	A. 40 B. 30 C. 50 D. 20
10	Question Image	A. 2 B. -1 C. 8 D. not defined
11	A triangle which is not right is called an _____ triangle	A. Acute B. Obtuse C. Oblique D. None of these
12	The equation of the circle with centre origin and radius r is	A. x²+ y²= 1 B. x²+ y²= r² C. x²+ y²= 0 D. x²- y²= r²
13	Question Image	A. π / 3 B. π / 4 C. π / 6 D. 0
14	Question Image	A. 0 B. -1 C. 1

		D. not defined
15	The point where the axis meets the parabola is called	A. Directrix B. Foucu C. Chord D. Vertix
16	Question Image	A. sin x + c B. -sin x + c C. cos x + c D. -cos x + c
17	Question Image	A. 0 B. 2 C. 4/3 D. 5/3
18	If x,y are two -ve distinct numbers then	A. A>G>H B. A<G<H C. A=G=H D. None of these
19	The set of points {(x,y)|y = f(x), ∀ x∈} is called	A. Relation B. Graph of f C. Function D. All are correct
20	sin 3a = _____;	A. 3sin a - 4sin3a B. 4sin a -3 sin3 a C. 3 cos3 a -cosa D. 4cos3 a - 3cos a