Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The middle term in the expansion of $(a+x)^{12}$ is	A. 7th B. 8th C. 9th D. 6th
2	Question Image	A. 2 and 9 B. 3 and 2 C. 2/3 and 9 D. 3/2 and 6
3	Question Image	A. (g,f) B. (-g,f) C. (g,-f) D. (-g,-f)
4	If A is an event then which of the following is true	A. P(A)<0 B. 0≥P(A)≤1 C. P(A)>0 D. None
5	Question Image	A. 0 C. 1
6	cos(a +β)-cos(a-β) = _____;	A. 2cosa cosβ B. 2sina cosβ C. -25 in a cosβ D. -2sin a sinβ
7	With usual notations b2 = a2 + c2 -2ac cos is called_____;	A. None of these B. Law of sines C. Law of consines D. Law of tangents
8	If n is any positive integer ,t hen 2+4+6+.....+2 n=	A. 2ⁿ-1 B. 2ⁿ+1 C. n²+1 D. n(n+1)
9	The domain of y =√(x^2-9) is	A. R B. (0 , +∞) C. (-∞ , -3) U (3 , +∞) D. (0 ,∞)
10	120° degrees are equal to how many radians?	
11	A circle passing through the vertices of any triangle is called	A. Circumcirle B. Incircle C. Escribed circle D. Unit circle
12	sin(π/2+θ) = _____;	A. sinθ B. cosθ C. -sinθ D. -cosθ
13	The standard parabolic form of the equation $f(x) = x^2 + 4x + 1$ is	A. x(x+4)+1 B. (x+2)²-3 C. (x+4)³ + 9 D. x(x-2)²+1
14	The sum of the cubes of three consecutive natural number is divisible by	A. 9 B. 6 C. 5 D. 10
15	Which of the following is a scalar.	A. electric field B. magnetic field C. weight D. mass
16	The roots of the equation $ax^2 + bx + c = 0$ are complex/imaginary if	A. b²- 4ac < 0 B. b²- 4ac = 0 C. b²- 4ac > 0 D. None of these

17	*i* is equal	A. (1 , 0) B. (0 , 1) C. (1 , 1) D. (0 , 0)
18	Question Image	
19	The equation of the circle with centre (-h, -k) and radius r is	A. (x +h)²+ (y+k)²= r² B. (x +h)²+ (y-k)²= r² C. (x -h)²+ (y+k)²= r² D. (x -h)²+ (y-k)²= r²
20	i^3 =	A. -1 B. i C. -i D. 1