Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If -1 < x < 0, which of the following statements must be true?	A. x < x²< x³ B. x < x³< x² C. x²< x³< x D. x²< x < x³
2	The solution of the equation $\cos^2\theta + \sin\theta + 1 = 0$ lies in the interval	
3	In an A.P,a +(n-a)d is	A. 1st term B. General term C. Last term D. None of these
4	The period of 2 cos x is	A. 30π B. 7π C. 5π D. 2π
5	The minimum value of the quadratic function f(x) = x2 +6x -2, is	A. 11 B. 6 C. -11 D. 13
6	√23 is	A. A rational number B. A irrational number C. An even integer D. A factor of 36
7	Question Image	A. 3 B. 2 C. 8 D. 0
8	If f (x) = 2x+1 then fof (x) = _____;	A. 4x+3 B. 2x +3 C. 4x +1 D. None of these
9	Which shape of the following objects are approximately parabolic ares?	A. Light reflectors B. Force C. Weight of the pendul D. None of these
10	The additive inverse of 1 is	A. 1 B. -1 C. 0 D. Does not exist
11	A box containing 10 mangoes out of which 4 are rotter. Two mangoes are taken together from the box. If one of them is found to be good, the probability that the other is also good is	A. 1 / 3 B. 8 / 15 C. 5 / 13 D. 5 / 9
12	A line segment whose end points lie on a circle is called	A. The secant of the circle B. The arc of the circle C. The chord of the circle D. The circumference of the circle
13	If $\cos^{-1}p + \cos^{-1}q + \cos^{-1}r = \pi$ then $p^2 + q^2 + r^2 + 2pqr$ is equal to	A. 3 B. 1 C. 2 D. -1
14	Which of the following integrals can be evaluated	
15	(0,1) is in the solution of the inequality	A. 3x + 2y > 8 B. 2x - 3y < 4 C. 2x + 3y > 5 D. x -2y < -5
16	The distance between two points P(x_1, y_1) and Q (x_2, y_2) is	

17	If x < y, 2x = A, and 2y = B, then	A. A = B B. A < B C. A < x D. B < y
18	The solution set of the equation 1 + Cos x = 0 is _____	D. none of these
19	π is the period of the function	A. |sin x| + |sin x| B. sin⁴x + cos x C. sin (sin x) + sin (cos x) D. None of these
20	Question Image	