

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Coordinates of the focus of the parabola x^2 - 4x -8y-4=0 are:	A. (0,2) B. (,0,1) C. (2,0) D. (1,2)
2	Question Image	
3	If x, y, z are the pth, qth, rth terms of an A.P. and also of G.P., then x^{y-z} . z^{x-y} equals	A. xyz B. 0 C. 1 D. None of these
4	The set {1,-1,i,-i}	A. Form a group w.r.t addition B. Form a group w.r.t multiplication C. Does not form a group w.r.t multiplication D. Not closed under multiplication
5	If the domain of the function f: $x = 2x^3 + 1$ is $\{-1,2,3\}$, the range of the function is	A. {3,2,5} B. {1,3,9} C. {-1,-2,-3} D. {3,9,19}
6	Question Image	A. quadratic function B. constant function C. trigonometric function D. linear function
7	If n is odd then the middle terms in the expansion of $(a + x)^{n}$ are	
8	Question Image	B. tan 3x + c C. cot 3x + c D cot 3x + c
9	If the line 2x -y +k =0 is a diameter of the circle x2 +y2 +6x -6y +5 =0 then k is equal to	A. 12 B. 9 C. 6 D. 3
10	The slope of the tangent at the point (h,h) of the circle x2 +y2 =a2 is	A. 0 B. 1 C1 D. h
11	Question Image	A. 2 B. 7 C. 8 D. 12
12	The solution of the quadratic equation $x^2 - 7x + 10 = 0$, is	A. 2 B. 5 C. 2,5 D. 7
13	In common logarithm the base is	A. 1 B. 0 C. 10 D. e
14	If $C=\{p/p < 18, p \text{ is a prime number}\}$, then $C=$	A. {2,3,4,17} B. {2,4,6,816} C. {1,3,5,7,9,11,13,15,17} D. {3,6,9,12,15}
15	Two cards are drawn at random from a well shuffled pack of cards. The probability that at least one of them is a face card is	A. 3 / 17 B. 5 / 17 C. 7 / 17 D. 9 / 17
16	The point which divides the line joining the points $(2,4,5)$ and $(3,5,-4)$ in the ratio -2 : 3 lines on	A. ZOX plane B. XOY plane C. YOZ plane D. None of these

17	The equation of the circle with centre origin and radius r is	A. x ² + y ² = 1 B. x ² + y ² = r ² C. x ² + y ² = 0 D. x ² - y ² = r ² -
18	Question Image	
19	The maximum value of the quadratic function $f(x) = -2x^2 + 20x$, is	A. 4 B. 3 C. 50 D. 7
20	ʃx sin xdx is equal to:	A. sin x/x + cos x B. sin x - cos x/x C. x cos x + sin x D x cos x + sin x