

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$3x + 4 \ge 0 \text{ is}$	A. equation B. inequality C. identity D. none of these
2	∀a,b,c∈R and c>0,then	A. a>b ⇒ ac < bc B. a>b ⇒ ac > bc C. a <b ac="" ⇒=""> bc D. None of these
3	Which of the following is factor of x11+a11, where n is an odd integer	A. x-a B. x+a C. 2x-a D. 2x+a
4	For $f(x) = x^2 + px + 1$, if $f(3) = 3$ then $P =$	A. 3/7 B2/5 C7/5 D7/3
5	If $y = \sin(ax + b)$, then fourth derivative of y with respect to $x =$	A. a ⁴ cos (ax + b) B. a ⁴ sin (ax + b) Ca ⁴ sin (ax + b) D. a ⁴ tan (ax + b)
6	Question Image	B. a ^x ln a + c C. a ^x + c D. x a ^x + c
7	Circumcentre of the triangle, whose vertices are (0, 0), (6, 0) and (0, 4) is	A. (2, 0) B. (3, 0) C. (0, 3) D. (3, 2)
8	Question Image	A. Associative law of addition B. Commutative law of addition C. Additive identity D. Closure law of addition
9	Question Image	
10	If in a set of real no a is multiplicative identity then	A. a,a = a ² B. a,a = 1 C. a,a = 0 D. None of these
11	The nth term of an A.P is (3n+5) Its 75th term is	A. 26 B. 7 C. 21 D. Cannot be determined
12	The 6th term of the sequence 7,9,12,16is	A. 27 B. 32 C. 20 D. 19
13	The consecutive terms of a progressions are 30, 24, 20. The next term of the progression is	
14	Question Image	
15	Question Image	
16	n different objects can be arranged taken all at a time in	A. (n + 1)! ways B. (n - 1)! ways C. n! ways D. n ways
17	There is no integer n for which $3^{\rm n}$ is	A. Odd B. even C. Natural D. Prime
18	If the graph of f is entirely below the x-axis, then the value of definite integral is	A. = 0 B. &tt 0

		C. > U D. None
19	Question Image	
20	For each even natural number n (n^2 -1) is divisible by	A. 6 B. 3 C. 4 D. 8