

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$(7, 9) + (3, -5) =$	A. (4, 4) B. (10, 4) C. (9, -5) D. (7, 3)
2	If x, y, z are the p th, q th, r th terms of an A.P. and also of G.P., then $x^p \cdot y^q \cdot z^r = ?$	A. xyz B. 0 C. 1 D. None of these
3	The 7th term of $(3^8 + 6^4 x)^{11/4}$ is	A. $-19217/3 x^{6/3}$ B. $189/2 6^{4/4} x$ C. $2227/12 x^{3/3}$ D. $-19712/3 x^{6/3}$
4	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. G.P B. H.P. C. A.P. D. No particular sequence
5	A tower subtends an angle α at a point on the same level as the root of the tower and at a second point, b meters above the first, the angle of depression of the foot of the tower is β . The height of the tower is	A. $b \cot \alpha \tan \beta$ B. $b \tan \alpha \cot \beta$ C. $b \tan \alpha \cot \beta$ D. None of these
6	The real numbers which satisfy an inequality form its	A. solution B. coefficient C. domain D. range
7	If $Z_1 = 1 + i, Z_2 = 2 + 3i$, then $ Z_1 - Z_2 = ?$	A. $\sqrt{5}$ B. $\sqrt{7}$ C. $-1 - 2i$ D. $\sqrt{3}$
8	Tangent isfunction	A. Inverse B. one-one C. in-to D. Periodic
9	$60^\circ =$ _____	
10	The set of all positive even integers is	A. Not a group B. A group w.r.t. subtraction C. A group w.r.t. division D. A group w.r.t. multiplication
11	The area bounded by $y = x(x^2 - 4)$ and below x -axis is	A. 4 B. 0 C. -4 D. 8
12	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. Associative law of addition B. Commutative law of addition C. Additive identity D. Closure law of addition

13	Question Image	
14	The sum if 1,3,5,7,9..... up to 20 terms is	<p>A. 400 B. 472 C. 563 D. 264</p>
15	$\forall z \in C$, multiplucative is	<p>A. (1,1) B. (1,0) C. (0,1) D. None of these</p>
16	If $z_1 = 2 + 6i$ and $z_2 = 3 + 7i$, then which expression defines the product of z_1 and z_2 ?	<p>A. $36 + (-32)i$ B. $-36 + 32i$ C. $6 + (-11)i$ D. $0 + (-12)i$</p>
17	Question Image	<p>A. 0 B. 1</p>
18	If $A = \{x / x \in R \wedge x^2 - 16 = 0\}$ then $A =$	<p>A. $-x$ B. Infinite set C. Φ D. $\{-4,4\}$</p>
19	The $\sqrt{\quad}$ is used for the	<p>A. Positive square root B. Negative square root C. +ve and -ve square root D. Whole number</p>
20	Question Image	