

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The maximum value of $\sin\theta\cos\theta$ is	A. 1 B. 1/2 C. 1/4 D. 1/6
2	$(a+bi) - (c+di) =$	A. $(a+b) = (c+d)$ B. $(a+c) + i(b+d)$ C. $(a - c) + (c - d)i$ D. $(a - c) + (b - d)i$
3	Question Image	A. Zero matrix B. Diagonal matrix C. Column matrix D. Scalar matrix
4	Question Image	
5	Question Image	
6	Question Image	A. are real no B. both are not real C. are imaginary no D. both are imaginary
7	Domain of $\cosh x$ is	A. R B. $R - \{0\}$ C. $[1, \infty)$ D. $[0, \infty)$
8	If α, β are the roots of the equation $x^2 - 8x + p = 0$ and $\alpha^2 + \beta^2 = 40$, then value of p is	A. 8 B. 12 C. 10 D. 14
9	Range of $3 \sin x$ is _____	A. $[-3, 3]$ B. $[-1, 1]$ C. R D. None of these
10	$\operatorname{Cosec} 60^\circ =$ _____	
11	$(1, 0)$ is in the solution of the inequality	A. $3x + 2y > 8$ B. $2x - 3y < 4$ C. $2x + 3y > 3$ D. $x - 2y < -5$
12	If $Z_1 = 1 + i$, $Z_2 = 2 + 3i$, then $ Z_1 - Z_2 = ?$	
13	If $c = 2i + j + k$ and $d = -1 + 4j + 2k$, then $ c - d =$	A. $\sqrt{7}$ B. $\sqrt{41}$ C. $\sqrt{19}$ D. $\sqrt{2 \& \# 7}$
14	The general term of the A.P. is	A. $a_{n-1} + (n - 1) d$ B. $n + (a_{n-1} - 1) d$ C. $d + (n - 1) a_{n-1}$ D. None of these
15	Question Image	
16	To each element of a group there corresponds inverse element	A. Two B. One C. No D. Three
17	Question Image	A. Reflexive property B. Symmetric property C. Transitive property D. Additive property
18	Question Image	A. k^3 B. 0 C. $3k$ D. k^2

D. k6

19 The roots of the equation $x^2 + 6x - 7 = 0$, are

- A. 1
- B. 2
- C. 1 and -7
- D. -7

20 If $ab > 0$ and $a < 0$, which of the following is negative?

- A. b
- B. -b
- C. -a
- D. $(a - b)^2$