

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The points A(3,1),B(-2,-3),C(2,2) are vertices of an (an)	A. Right triangle B. Equilateral triangle C. Isosceles triangle D. Scalene triangle
2	3, 6, 12,..... is	A. A.P B. G.P. C. H.P. D. None of these
3	Two circles $x^2 + y^2 + 8x - 9 = 0$ and $x^2 + y^2 + 6y + k = 0$ touch internally if the value of k is	A. $k = 9$ B. $k = \pm 9$ C. $k = -9$ D. $k = 11$
4	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. A B. B C. U D. None of these
5	QUQ'	
6	If distance of (a,b) from x-axis is 2 then	A. $a = 2$ B. $b = 2$ C. $a = b$ D. $b = 4$
7	No term of a geometric sequence can be	A. 0 B. 1 C. 2 D. 3
8	$\forall a, b, c \in \mathbb{R} \quad ac = bc \Rightarrow a = b, c \neq 0$ is a	A. Symmetric property B. Cancellation property w.r.t multiplication C. Reflexive property D. Transitive property
9	What is the period of $\cos 6x = ?$	A. $\pi/2$ B. $\pi/3$ C. $\pi/4$ D. π
10	For all points (x,y) in first quadrant	A. $x > 0, y < 0$ B. $x > 0, y > 0$ C. $x < 0, y < 0$ D. $x < 0, y > 0$
11	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. $n!$ B. $0!$ C. 1 D. None of these
12	π is _____	A. A complex number B. A rational number C. A natural number D. An irrational number
13	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. $2^{2^{n-1}}$ B. $1 - 2^{n-1}$ C. $n + 2^{n-1}$ D. $2^{2^n} - 1$
14	Four cards are drawn at random from a pack of 52 playing cards. The probability of getting all the four cards of the same suit is	A. $\frac{44}{4165}$ B. $\frac{22}{4165}$ C. $\frac{11}{4165}$ D. None of these
15	Question Image <input style="width: 100%; height: 20px;" type="text"/>	
16	Question Image <input style="width: 100%; height: 20px;" type="text"/>	
17		A. $m=1$ B. $m=2$

17 The line $y = mx + 1$ is tangent to the parabola $y^2 = 4x$ if

- C. $m=3$
- D. $m=4$

18 

19 If $|ai + (a+1)j + 2k| = 3$ then value of a is

- A. 1,2
- B. -1,-2
- C. 1,-2
- D. -1,2

20 

- A. Set of whole number
- B. Rational Numbers
- C. Complex numbers
- D. Whole numbers