

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If the circle $x^2 + y^2 + 2gx + 2fy + c = 0$ passes through the origin then	A. $c = 0$ B. $c = -1$ C. $c = -2$ D. $c = 1$
2	If A is such that a,A,B are in A.P then A is called	A. A.M B. Common ratio C. Common difference D. None of these
3	The sum of the cubes of three consecutive natural number is divisible by	A. 9 B. 6 C. 5 D. 10
4	Fundamental law is	
5	The sum if 1,3,5,7,9..... up to 20 terms is	A. 400 B. 472 C. 563 D. 264
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix
7	The transpose of a zero matrix is a _____	A. Column matrix B. Zero matrix C. Row matrix D. Scalar matrix
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1 C. 2 D. 1/2
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. -8 B. 8 C. 8i D. 32
11	An airplane flying at height of 300 meters above the ground passes vertically above another plane at an instant when the angle of elevation of the two planes from the same point on the ground are 60° and 45° respectively. Then the height of the lower plane from the ground is (in meters).	
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. -1 B. 0 C. 1 D. None of these
13	The point _____ is in the solution of the inequality $2x - 3y < 4$	A. (0, -2) B. (1, -3) C. (2, 2) D. (3, 0)
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
15	Given X,Y are any two sets such that number of elements in set X = 28, number of elements in set Y = 28, and number of elements in set $X \cup Y = 54$, then number of elements in set $X \cap Y =$	A. 4 B. 3 C. 2 D. 1
16	The multiplicative inverse of 4 is	A. -4 B. -1/4 C. 1/4 D. 1
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. G.P

- 18 The three consecutive numbers a, \sqrt{ab}, b are in
B. H.P
C. G.M
D. None of these
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- 19 The obtuse angle between lines $y = -2$ and $y = x + 2$ is
A. 120°
B. 135°
C. 150°
D. 140°
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- 20 For any set B, $B \cup B'$ is
A. Is set B
B. Set B'
C. Universal set
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