

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If d_1 is the distance between (0,0) and (1,2) and d_2 is the distance between (0,0) and (-1,-2) the	A. $d_1 < d_2$ B. $d_1 > d_2$ C. $d_1 = d_2$ D. none of these
2	Question Image	A. An upper triangular matrix B. A lower triangular matrix C. A diagonal matrix D. A null matrix
3	A kite flying at a height of 67.2 m is attached to a fully stretched string inclined at an angle of 53 to the horizontal, the length of the string	A. 62m B. 82m C. 73m D. 57m
4	Question Image	
5	The set $\{ \{a, b\} \}$ is	A. Infinite set B. Singleton set C. Two points set D. Empty set
6	The number of combinations of 10 different objects taken 8 objects at a time is	A. 90 B. 45 C. 55 D. 50
7	Write the first four terms of the arithmetic sequence 5, 2, -1, ... is	A. 3 B. -4 C. 7 D. 1
8	Two unbiased dice are thrown. The probability that the total score is > 5 is	A. $1/18$ B. $7/18$ C. $13/18$ D. $11/18$
9	The tangents drawn from the point P to a circle are real and distinct if	A. P is on the circle B. P is inside the circle C. P is outside the circle D. none of these
10	Question Image	A. $ab = -1$ B. $ab = 1$ C. $ab = 2$ D. None
11	Derivative of $\sin x$ w.r.t. $\sin x$ is	A. 0 B. 1 C. $\sin x$ D. $\cos x$
12	It is not possible to find the exact value of	A. π B. $\sqrt{9}$ C. $\sqrt[3]{27}$ D. $\sqrt{1}$
13	Question Image	
14	The set of rational numbers between 0 and 1 is	A. Finite B. Null set C. Infinite D. None of these
15	The negation of given number is a	A. Binary operation B. Unary operation C. Relation D. None of these
16	Question Image	
17	Question Image	A. 5 C. -5

D. none

18

Question Image

A. $2x$

B. $3x^2$

C. 1

D. 0

19

Through how many radians does the minute hand of a clock turn in one hour

20

Question Image