

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If the elevation of the sun is 30° , then the length of the shadow cast by a tower of 150 ft height is	
2	The symbol of irrational is	A. W B. N C. Q D. \mathbb{Q}
3	Question Image	A. (3, 1, -2) B. (3, -2, 1) C. (2, -1, 3) D. (-1, -2, -3)
4	Question Image	
5	Two cards are drawn at random without replacement. the probability that the first is a king and second is not a king is	A. $\frac{48}{663}$ B. $\frac{24}{663}$ C. $\frac{12}{663}$ D. None of these
6	Question Image	A. Every element of A is in B B. Every element of B is in A C. Every element of A is in B' D. Every element of A is in A
7	Domain of $\sin \theta$ is	A. Set of real numbers B. Set of complex numbers C. Set of natural numbers D. Set of even numbers
8	An equation in which at least one term contains dy/dx , d^2y/dx^2 etc, is called.	A. Differential equation B. Initial condition C. General solution D. Singular equation
9	A triangle which is not right angle is called _____ triangle	A. acute B. Obtuse C. Right D. Oblique
10	The function $f(x, y) = ax^2 + bx + c$ is	A. One-one function B. Constant function C. Onto function D. Quadratic function
11	Question Image	A. 0 B. 1 C. 2 D. 4
12	A person standing on the bank of a river finds that the angle of elevation of the top of a tower on the opposite bank is 45° . then which of the following statements is correct?	A. Breadth of the river is twice the height of the tower B. Breadth of the river is the same as the height of the tower C. Breadth of the river is half of the height of the tower D. None of these
13	The third term in the expansion of $(1+2x)$ is	A. $-2x^2$ B. $-4x^2$ C. $2x^2$ D. $4x^2$
14	Question Image	
15	Question Image	A. 0 B. -1 C. 1 D. not defined
16	The physical quantity which can be specified by a number alongwith unit is called a	A. scalar B. vector C. constant D. none of these

17

18 $\sin[\cot^{-1}\{\cos(\tan^{-1}x)\}] =$

19

- A. 0
- B. 1
- C. 2
- D. 4

20

- A. (2x4)
- B. (2x7)
- C. (2x3)
- D. (7x2)