

Mathematics General Science Test Hard Mode

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	D. None
3	The magnitude of a vector can never be	A. Zero B. Negative C. Positive D. Absolute
4	The number of diagonals of a six sided figure are	A. 9 B. 6 C. 12 D. 3
5	Question Image	
6	A die is thrown. What is the probability that there is a prime number on the top?	A. 1/2 B. 1/3 C. 1/6 D. 2/3
7	Question Image	
8	Question Image	
9	The set of complex numbers forms a group under the binary operation of	A. Addition B. Multiplication C. Division D. Subtraction
10	The direction cosines of y-axis are	A. 1,0,0 B. 0,1,0 C. 0,0,1 D. 1,1,1
11	Question Image	
12	A line segment whose end points lie on a circle is called	A. The secant of the circle B. The arc of the circle C. The chord of the circle D. The circumference of the circle
13	In the expansion of $(a + b)^n$ in every term the sum of the exponents of a and b is	A. n B. n + 1 C. 2n - 1 D. 2n + 1
14	Question Image	A. Tan x B. X C. - x
15	$\sin x + \cos x = 1$ x =	
16	Which is in the solution set of $4x - 3y < 2$	A. (3, 0) B. (4, 1) C. (1, 3) D. None
17	If the sum of the roots of $(a + 1)x^2 + (2a + 3)x + (3a + 4) = 0$ is -1, then product of the roots is	A. 1 B. 2 C. -2 D. -1
18	The associative angle of 280° is	A. 100° B. 10° C. 80° D. -80°

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Question Image

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

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The nth term in G.P 3,-6,12,..... is

- A. $3(-2)^{n-1}$**
- B. $2(-2)^{n+1}$
- C. $3(-2)^n$
- D. $4(-2)^{n-1}$