

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	A triangle which is not right angle is called _____ triangle	A. acute B. Obtuse C. Right D. Oblique
2	The line $y = 4x + c$ touches the hyperbola $x^2 - y^2 = 1$ if	
3	Question Image	A. $1 + \tan^2 x + c$ B. $\tan x + c$ C. $-\tan x + c$ D. $\cot x + c$
4	$\cos^{-1}(-x) =$	A. $-x$ B. $1/x$ C. $\tan^{-1} x$ D. $\pi - \cos^{-1} x$
5	The term involving x^4 in the expansion $(3-2x)$ is	A. $217x^4$ B. $15120x^4$ C. $313x^4$ D. $-25x^4$
6	The mid point of the line segment joining the points $(3,-1)$ and $(-3,1)$ is	A. $(3,-1)$ B. $(0,0)$ C. $(2,2)$ D. $(4,4)$
7	Question Image	
8	Question Image	
9	The equation of line passing through intersection of line $x = 0$ and $y = 0$ and the point $(2,2)$ is	A. $y = x$ B. $y = x - 1$ C. $y = x + 1$ D. $y = x + 1$
10	Question Image	A. Lies between 4 and 7 B. Lies between 5 and 9 C. Has no value between 4 and 7 D. Has no value between 5 and 9
11	Question Image	A. $a-b=ab$ B. $ab=a$ C. $a+b=ab$
12	The set $\{1,2,3,4,\dots\}$ is called	A. Set of natural numbers B. Set of whole numbers C. Set of rational number D. Set of irrational numbers
13	If $n \in \mathbb{N}$, then $n(n+3)$ is always	A. Multiple of 3 B. Multiple of 6 C. odd D. even
14	A farmer possesses 100 hectometers of land and wants to grow corn and wheat. Cultivations of corn requires 3 hours per hectometer while cultivation of wheat requires 2 hours per hectometer. Working hours cannot exceed 240. If he gets a profit of Rs. 20 per hectometer for corn and Rs. 15 per hectometer for wheat. The profit function for the farmer is	A. $P(x, y) = 20x + 15y$ B. $P(x, y) = 2x + 3y$ C. $P(x, y) = x + y$ D. $P(x, y) = 3x + 2y$
15	The distance of the point (a, b) from x-axis is	A. a B. b C. $a + b$
16	Question Image	
17	Question Image	
18	The probability that a slip of number divisible by 4 is picked from the slips bearing numbers 1, 2, 3, ...10 is	A. $1/5$ B. $1/4$ C. $1/3$ D. $1/2$

19 If $A(x_1, y_1)$, $B(x_2, y_2)$ and $C(x_3, y_3)$ are the vertices of a triangle then its centroid is

20 $f(x) = x$ is

- A. trigonometric function
 - B. exponential function
 - C. quadratic function
 - D. identify function
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