

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The coordinates of the point that divides the join of A(-6,3) and B(5, -2) in the ratio 2:3 internally	
2	$3x + 4 \geq 0$ is	A. equation B. inequality C. identity D. none of these
3	Question Image	D. none of these
4	Question Image	D. none of these
5	Both the roots of the equation $(x - b)(x - c) + (x - c)(x - a) + (x - a)(x - b) = 0$ are always	A. Positive B. Negative C. Real D. None of these
6	The second degree equation of the form $Ax^2 + By^2 + Gx + Fy + C = 0$ represent hyperbola if	A. $A = B \neq 0$ B. $A \neq B$ and both are of same sign C. $A \neq B$ both are of opposite sign D. Either $A = 0$ or $B = 0$
7	The upper $\frac{3}{4}$ the portion of a vertical pole subtends an angle $\tan^{-1} \frac{3}{5}$ at a point in the horizontal plane through its foot and at a distance 40 m from the foot. A possible height of the vertical pole is	A. 20 m B. 40 m C. 60 m D. 80 m
8	Question Image	A. 5 B. 25 D. 3
9	Domain of $y = \sec x$ is	A. All real numbers except $\frac{\pi}{2} + n\pi$ B. R C. All negative integers D. None of these
10	$3j \cdot k \times i$	A. 0 B. 1 C. 3 D. 9
11	Question Image	
12	A fixed point which lies on the axis of the cone is called its:	A. axis B. apex C. plane D. diameter
13	$\sin(a-90^\circ) = \underline{\hspace{1cm}}$;	A. $\sin a$ B. $\cos a$ C. $-\sin \theta$ D. $-\cos a$
14	$w^{15} = \underline{\hspace{1cm}}$	A. 0 B. 1 C. w D. $w^{2\frac{1}{3}}$
15	Question Image	A. 0 B. 3 C. 9 D. -3
16	Question Image	A. $1 + \tan^2 x + c$ B. $\tan x + c$ C. $-\tan x + c$ D. $\cot x + c$
17	Question Image	A. 405 / 256 B. 504 / 259 C. 450 / 263 D. None
		A. incentre -

18	The point of concurrency of the medians of a triangle is called	B. circumcentre C. e-centre D. centroid
19	x is a member of the set [-1, 0, 3, 5] y is a member of the set {-2, 1, 2, 4} which is possible?	A. $x - y = -6$ B. $x - y < -6$ C. $x - y > -6$ D. None
20	<div>Question Image</div>	A. $a \cos(ax + b) + c$ B. $-a \cos(ax + b) + c$