

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If $a \neq 0$, $b \neq 0$ and $ a+b = a-b $, then vectors a and b are:	A. Parallel to each other B. Perpendicular to each other C. Inclined at 60° D. neither parallel nor perpendicular
2	Question Image	A. $3x^2 + 2$ B. $3x^2 + 2x + 3$ C. $x^3 + x^2$ D. none of these
3	The set X is	A. Proper Subset of X B. Not A subset of X C. Improper Subset of X D. None of these
4	Question Image	
5	Question Image	
6	The general term of a sequence is denoted by	A. a_1 B. a_n C. n D. s_n
7	The set $\{1, -1, i, -i\}$	A. Form a group w.r.t addition B. Form a group w.r.t multiplication C. Does not form a group w.r.t multiplication D. Not closed under multiplication
8	The 60th part of one minute is called	A. Degree B. Second C. Radian D. None of these
9	Period of $\tan x$ is _____	
10	The mid point of the line joining the points $P(x_1, y_1)$ and $Q(x_2, y_2)$ is	
11	$a > b, b > c \Rightarrow a > c$ is a	A. Multiplicative property B. Additive property C. Trichotomy property D. Transitive property of inequality
12	Question Image	
13	Question Image	A. Polynomial of degree 0 B. Polynomial of degree 1 C. Polynomial of degree 2 D. Polynomial of degree n
14	Question Image	A. 6, -12, -18 B. -6, 4, 9 C. -6, -4, -9 D. -6, 12, 18
15	Question Image	A. $16/7$ B. $6/17$ C. $7/16$ D. None of these
16	The domain of the function $y = \sin x$, is	A. $-\pi/2 \leq x \leq \pi/2$ B. $\pi/2 \leq x \leq \pi$ C. $-2\pi \leq x \leq 2\pi$ D. $-1 \leq x \leq 1$
17	Question Image	A. $\pi/3$ B. $\pi/4$ C. $\pi/6$ D. 0

18	Question Image	A. 0 B. 1 C. 1/2
19	The roots of the equation will be irrational if $b^2 - 4ac$ is	A. Positive and perfect square B. Positive but not a perfect square C. Negative D. Zero
20	The roots of the equation $2^{2x} - 10 \cdot 2^x + 16 = 0$ are	A. 2, 8 B. 1, 3 C. 1, 8 D. 2, 3