

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If a, β are the roots of the equation $x^2 + kx + 12 = 0$ such that $a - \beta = 1$, the value of k is	<p>A. 0 B. ± 1 C. ± 5 D. ± 7</p>
2	If $\cos \theta = 0$, then $\theta =$ _____	<p>A. $n\pi$ B. $(2n + 1)\pi$ C. $(2n - 1)\pi$ D. $(4n + 1)\pi$</p>
3	Question Image	<p>A. -2 B. -1 C. 1 D. 2</p>
4	$(7, 9) + (3, -5) =$	<p>A. (4, 4) B. (10, 4) C. (9, -5) D. (7, 3)</p>
5	Question Image	<p>A. Polynomial of degree 0 B. Polynomial of degree 1 C. Polynomial of degree 2 D. Polynomial of degree n</p>
6	If $4 {}^6P_r = {}^6P_{r+1}$, then r is equal to	<p>A. 4 B. 3 C. 2 D. 1</p>
7	When we expand $(a + 2b)^5$ then	<p>A. $a^5 + 10a^4b + 40a^3b^2 + 80a^2b^3 + 80ab^4 + 32b^5$ B. $a^5 + a^4b + a^3b^2 + a^2b^3 + ab^4 + b^5$ C. $5a^5 + 4a^4b + 3a^3b^2 + 2a^2b^3 + ab^4 + b^5$ D. None</p>
8	Question Image	
9	If $f(x) = b^2$ and $g(x) = d$ where $c = b^2$ then $(g \circ f)(a)$ is	<p>A. a B. c C. b D. d</p>
		A. 1

10	Question Image	B. 5 C. 7 D. 9
11	Three right angles is the angle of measure	A. 270° B. 180° C. 90° D. $270'$
12	The point _____ is in the solution of the inequality $2x - 3y < 4$	A. (0, -2) B. (1, -3) C. (2, 2) D. (3, 0)
13	The point lying on the terminal rat of -270° is	A. (1,0) B. (0,-1) C. (0,1) D. (-1,0)
14	Question Image	D. none of these
15	Question Image	A. $\pi/2$ B. $\pi/3$ C. $\pi/4$ D. $\pi/6$
16	If $\cos 20^\circ = K$ and $\cos x = 2K^2 - 1$, then the possible values of x between 0° and 360° are	A. 140° B. 50° and 140° C. 50° and 130° D. 40° and 320°
17	Question Image	A. 6 C. 20 D. 0
18	If $z_1 = \sqrt{-36}$, $z_2 = \sqrt{-25}$, $z_3 = \sqrt{-16}$ then	A. 15 B. $15i$ C. $-15i$ D. -15
19	Which element is the additive inverse of (a, b) in Complex numbers?	A. (a, 0) B. (0, b) C. (a, b) D. (-a, -b)
20	If a set S contains "n" elements then P (S) has number of elements	A. 2^n B. 2^{2n} C. $2 \cdot n$ D. n^2