

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If α, β are non-real roots of $ax^2 + bx + c = 0$ ($a, b, c \in \mathbb{Q}$), then	A. $\alpha = \beta$ B. $\alpha\beta = 1$ C. $\alpha = \beta$ D. $\alpha = 1$
2	If <u>a</u> and <u>b</u> are two vectors then $a+b =$	A. $b + a$ B. $b - a$ C. ab D. a^b
3	Question Image	
4	$\sqrt{-1} b =$	A. b B. 2 C. $2b$ D. None of these
5	The number of significant numbers which can be formed by using any number of the digits 0, 1, 2, 3, 4 but using each not more than once in each number is	A. 260 B. 356 C. 410 D. 96
6	The set of complex numbers forms	A. Commutative group w.r.t addition B. Commutative group w.r.t multiplication C. Commutative group w.r.t division D. Non commutative group w.r.t addition
7	A sequence having no last term is called	A. arithmetic sequence B. Geometric sequence C. Finite sequence D. Infinite sequence
8	Question Image	
9	Question Image	
10	$\cos 315^\circ =$ _____	
11	Question Image	A. $\cos x + c$ B. $-\sin x + c$ C. $-\cos x + c$ D. $\sin x + c$
12	Question Image	
13	Question Image	
14	The set of complex numbers forms a group under the binary operation of	A. Addition B. none of these C. Division D. Subtraction
15	Question Image	
16	If $A(a, b)$ lies on $3x + 2y = 13$ and point $B(b, a)$ lies on $x - y = 5$ then equation of AB is	A. $x - y = 5$ B. $x + y = 5$ C. $x + y = -5$ D. $5x + 5y = 21$
17	In following question, a number series is given with one term missing. choose the correct alternative that will same pattern and fill in the blank spaces. 1, 4, 9, 16, 25, x	A. 35 B. 36 C. 48 D. 49
18	the largest degree of the terms in the polynomials is called	A. terms of the polynomial B. degree of a polynomial C. co-efficient D. monomial
19	A monoid $(G, *)$ is said to be group if	A. have identity element B. is commutative C. have inverse of each element

D. None of these

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The sum of the cubes of three consecutive natural number is divisible by

A. 9

B. 6

C. 5

D. 10
