

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	An equation which hold good for all values of the variables is called	A. Identity B. fraction C. mixed form D. Partial equation
2	Question Image	
3	Which of the following is a quadrantal angle	A. 30° B. 45° C. 60° D. 90°
4	The point of concurrency of the medians of the $\Delta ABC$ is called its	A. Orthocenter B. Centriod C. Circumcentre D. Incentre
5	Question Image	
6	If $z_1 = 2 + 6i$ and $z_2 = 3 + 7i$ , then which expression defines the product of $z_1$ and $z_2$ ?	A. $36 + (-32)i$ B. $-36 + 32i$ C. $6 + (-11)i$ D. $0, +(-12)i$
7	Question Image	
8	Which element is the additive inverse of $(a, b)$ in Complex numbers	A. $(a, 0)$ B. $(0, b)$ C. $(a, b)$ D. $(-a, -b)$
9	If $\underline{u} = [3, -4]$ , then modulus of $\underline{u}$ is:	A. 5 B. $5i$ C. $-5$ D. $\sqrt{5}$
10	If 2 and 2 are x and y components of vector then its angle with x-axis is	A. 30° B. 45° C. 60° D. 90°
11	$\{x   x \in \mathbb{R} \wedge x \neq x\}$ is a	A. Infinite set B. Null set C. Finite set D. None of these
12	If $a_1$ and $r$ are the first term and the common ratio respectively then $(n + 1)$ th term of the G.P. is	A. 0 B. $a_1 r^{n-1}$ C. $a_1 r^{n+1}$ D. $a_1 r^n$
13	$x^4 - 3x^3 + 3x + 1 = 0$ is called _____	A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these
14	Which of the following sets is infinite	A. The set of students of your class B. The set of all schools in Pakistan C. The set of natural numbers between 3 and 10 D. The set of rational numbers between 3 and 10
15	Question Image	

16	A bag contains 3 white, 4 black and 2 red balls. If 2 balls are drawn at random, then the probability that both the ball are white is	B. 1/12 C. 1/36 D. None of these
17	$a \cdot a^{-1} = a^{-1} \cdot a = 1$ is a	A. Commutative law of multiplication B. Multiplicative identity C. Associative law of multiplication D. Multiplicative inverse
18	Which of the following is skew symmetric matrix	
19	Find the sum of the infinite geometric series $2 + 1 + 0.5 + \dots$	A. 3.5 B. 3 C. 4 D. None of these
20	Question Image <input type="text"/>	A. n(A) B. n(B) C. 0 D. 1