

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
SI	Questions	
1	Question Image	A. I and III quadrants B. II and III quadrants C. I and II quadrants D. II and IV quadrants
2	If $ \alpha i + (\alpha+1)j + 2k = 3$ then value of α is	A. 1,2 B1,-2 C. 1,-2 D1,2
3	The maximum value of the quadratic function $f(x) = -2x^2 + 20x$, is	A. 4 B. 3 C. 50 D. 7
4	To express a single rational fraction as a sum of two or more single rational fractions which are called	A. improper fractions B. Partial fractions C. mixed form D. Polynomials
5	Question Image	
6	A and B be two square matrices and if their inverse exist, the (AB) ⁻¹ =	A. A ⁻¹ B ⁻¹ B. AB ⁻¹ C. A ⁻¹ B D. B ⁻¹ A ⁻¹
7	Question Image	
8	A person standing on the bank of a river observes that the angle of elevation of the top of a tree on the opposite bank of the river is 60° and when he retires 40 meters away from the tree the angle of elevation becomes 30°. The breadth of the river is	A. 40 m B. 30 m C. 20 m D. 60 m
9	Every natural number is	A. A prime number B. An irrational number C. An integer D. An even number
10	Question Image	
11	x = is in the solution of $2x - 3 < 0$	A. 2 B2 C. 3 D. 4
12	If distance between (3,b) and (0,0) is 3 then b =	A. 3 C. 9 D. 0
13	The range of the function $f: x \rightarrow y$ is defined by	A. $\{x \mid y = f(x) \ \forall x \in X \land y \in y\}$ B. $\{(x,y) \mid y = f(x) \ \forall x \in X\}$ C. $\{y \mid y = f(x) \ \forall x \in X \land y \in y\}$ D. Y
14	The multiplicative inverse of 0 is	A. 1 B1 C. 0 D. Does not exist
15	A non-homogeneous linear system AX = B has no solution if	A. A = 0 B. A ≠ 0 C. Rank (a) = no of variables D. Rank > no of variables
16	Question Image	
17	If the pth, qth, and rth terms of an A.P. are in G.P:., then the common ratio of the G.P. is	
18	In one hour, the minute hand of a clock turns through	
19	If the expansion of $(1 + x)^{20}$, then co-efficient of rth ad $(r + 4)$ th term are equal, then r is	A. 7 B. 8 C. 9

		D. 10
20	If $s = 2t^3$ - $3t^2$ + 15t - 8 is the equation of motion of a particle, then its initial velocity is	A. 8 B. 15 C6 D. None