

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	{1, 2, 3, 4,.....} is set of _____	A. Natural numbers B. Whole numbers C. Integers D. Rational numbers
2	Question Image	A. Hermitian matrix B. Skew-hermitian matrix C. Symmetric matrix D. Identity matrix
3	Question Image	A. $2^{2-n} - 1$ B. $1 - 2^{n-1}$ C. $n + 2^{n-1} - 1$ D. $2^{n-1} - 1$
4	A card is drawn from a pack of cards numbered 2 to 53. the probability that the number on the card is prime number less than 20 is	A. $\frac{2}{13}$ B. $\frac{4}{13}$ C. $\frac{5}{13}$ D. $\frac{8}{13}$
5	A die is thrown 100 times. If getting an odd number is considered a success, the variance of the number of successes is	A. 50 B. 25 C. 10 D. 100
6	Two circle s1: $x^2 + y^2 + 2x - 2y - 7 = 0$: s2: $x^2 + y^2 - 6x + 4y + 9 = 0$	A. Touch externally B. Touch internally C. Intersects each other D. Do not intersects
7	Question Image	
8	$\sqrt{-1}b = ?$	A. b i B. -i b C. b ² D. i ¹ b
9	The general term of the A.P. is	A. $a + (n - 1) d$ B. $n + (a - 1) d$ C. $d + (n - 1) a$ D. None of these
10	The horizontal distance between the two towers is 60 m. the angular elevation of the top of the taller tower as seen from the top of the shorter one is 30°. If the height of the taller tower is 150 m, the height of the shorter one is	A. 116 m B. 200 m C. 216 m D. None of these
11	$(x^3 - 1/x)^{12}$	A. 295 B. 495 C. 395 D. 722
12	The equation of the circle wit (-1, 1) and radius 2 is	
13	The principal value of $\sin^{-1}(-1/2)$	A. $\pi/3$ B. $\pi/4$ C. $\pi/6$ D. $-\pi/6$
14	The common ration of a geometric sequence cannot be	A. 0 B. 1 C. 2 D. 3
15	Question Image	
16	The measure of the acute angle between the lines represented by $x^2 - xy - 6y^2 = 0$ is	A. 120° B. 30° C. 130° D. 45°
17	The middle term in the expansion of $(a + x)^{12}$ is	A. 7th B. 8th C. 9th D. 10th

D. 6th

18 If the intersection of two sets is non-empty, but neither is a subset of the other are called

- A. Disjoint sets
- B. Overlapping
- C. Equal sets
- D. None of these

19 The point _____ is in the solution of the inequality $2x + 3y < 5$

- A. (1,1)
- B. (2,2)
- C. (0,1)
- D. (0,2)

20 Question Image