

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Multiplicative inverse of 0 is	A. 0 B. 1 C. ± 1 D. Does not exist
2	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. $2 / 13$ B. $4 / 13$ C. $5 / 13$ D. $8 / 13$
3	Which one represents a sequence	A. an B. Sn C. a(n) D. {an}
4	The equation $ax^2 + 2hxy + by^2 + 2gx + 2fy + c = 0$ represents an ellipse if	
5	Question Image	
6	The graph of $y < 2$ is the	A. Left half plane B. upper half plane C. Right half plane D. Lower half plane
7	The radian measure of the central angle of an arc 50 m long on a circle of radius 25 m is	A. 3 B. 2 C. 1
8	0 is a symbol of	A. singleton set B. Empty set C. Equivalent set D. Infinite set
9	Question Image	A. 2, 3 B. 3, 3 C. 2, 6 D. 2, 4
10	Name the property used in $a(b-c) = ab - ac$	A. commutative property of multiplication B. distributive property of multiplication C. associative property of multiplication D. multiplicative inverse
11	The period of the function $\csc x/4$ is	A. $4x$ B. $\pi/4$ C. 8π D. $\pi/8$
12	0 (zero) is	A. An irrational number B. A rational number C. A negative integer D. A positive number
13	The decimal fraction in which we have finite number of digits in its decimal part is called.	A. recurring decimal fraction B. Non terminating fraction C. Non recurring fraction D. terminating decimal fraction
14	[i,j,k]	A. 0 B. 2 C. 1 D. -2
15	If a variable y depends on a variable x in such a way that each value of x determines exactly one value of y, then we say that	A. x is function of y B. y is a function of x C. y is independent variable D. x is real valued function
16	Number of permutations of n distinct objects taken r ($r < n$) at a time which exclude 3 ($3 < n$) particular objects is	A. $3! P(n, r - 3)$ B. $P(n, 3) P(n, r - 3)$ C. $P(r, r) P(n, r - 3)$

D. $P(n - 3, r)$

17 Sum of all the four forth roots of unity is

- A. 1
- B. -1
- C. i
- D. 0

18 A circle passing through the vertices of any triangle is called

- A. Circumcircle
- B. Incircle
- C. Escribed circle
- D. Unit circle

19 The function $\phi(x)$ is an anti derivative of function $f(x)$, $x \in D$ if

- A. $\phi'(x) = \int f(x) dx$
- B. $\phi(x) = \int f(x) dx$
- C. $\phi'(x) = f(x)$
- D. $\phi(x) = \int f'(x) dx$

20 Question Image

- A. 1/3
- B. 1
- C. 3
- D. None of these