

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	graph of sine function is bounded between lines	A. $y \pm 1 = 0$ B. $x \pm 1 = 0$ C. $x \pm y = 0$ D. None of these
2	Question Image	D. none of these
3	The function $f(\{(x, y) \mid y = ax^2 + bx + c\})$ is	A. One-one function B. Constant function C. Onto function D. Quadratic function
4	If $A=B$, then	A. $A \subset B$ and $B \subset A$ B. $A \subseteq B$ and $B \not\subseteq A$ C. $A \subseteq B$ and $B \subseteq A$ D. None of these
5	The inclination of a line parallel to y-axis is	
6	Fifteen girls compete in a race. The first three places can be taken by them in	A. 3! ways B. 12! ways C. $15 \times 14 \times 13$ ways D. 42 ways
7	$5x^3 + 3x -$ is a _____	A. Polynomial of degree 3 B. Polynomial of degree 2 C. Polynomial of degree 1 D. Polynomial of degree 0
8	The system of measurement in which the angle is measured in radians is called the	A. circular system B. CGS system C. sexagesimal system D. none of these
9	$a + x$ is _____	A. A trinomial B. A binomial C. A monomial D. None of these
10	Question Image	
11	The quadratic equation $8 \sec^2 \theta - 6 \sec \theta + 1 = 0$ has	A. Infinitely many roots B. Exactly two roots C. Exactly four roots D. No roots
12	The graph of a quadratic function is	A. Circle B. Ellipse C. Parabola D. Hexagon
13	Question Image	A. 0 B. -1 C. 1/2 D. 1
14	If $x^4 - 10x^2 - 2x + 4$ is divided by $x + 3$, then the remainder is	A. 1 B. 0 C. 4 D. None of these
15	If $\triangle ABC$ is right, law of cosine reduce to	A. Law of sine B. Law of tangent C. Phythogorous theorem D. Hero's formula
16	Trivial solution of homogeneous linear equation is	A. (0, 0, 0) B. (1, 2, 3) C. (1, 3, 5) D. a, b and c
17	Question Image	A. $\cos 2x$ B. $2 \cos 2x$ C. $2 \sin 2x$ D. $\sin 2x$

D. $-2 \cos^2 x$

18

Question Image

- A. trigonometric equation
- B. conditional equation
- C. identity
- D. None

19

Question Image

- C. 16
- D. None of these

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If $x = 1/x$ for $x \in \mathbb{R}$ then the value of x is

- A. ± 1
- B. 0
- C. 2
- D. 4