

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Which of the following is the subset of all sets	A. Φ B. $\{1,2,3\}$ C. $\{\Phi\}$ D. $\{0\}$
2	Question Image	A. Additive property in \mathbb{R} B. Multiplication property in \mathbb{R} C. Cancellation property in \mathbb{R} D. Distribution property in \mathbb{R}
3	Question Image	
4	System of linear equations is inconsistent if	A. System has no solution B. System has one solution C. System has two solution D. None of above
5	Question Image	
6	If $f(x)$ is defined and continuous then $f(x)$ is always	A. Rational function B. Trigonometric function C. Logarithmic function D. All are correct
7	Question Image	A. I and II quadrants B. I and III quadrants C. II and III quadrants D. II and IV quadrants
8	The multiplicative inverse of 4 is	A. -4 B. -1/4 C. 1/4 D. 1
9	Question Image	A. I and III quadrants B. II and III quadrants C. I and II quadrants D. II and IV quadrants
10	Question Image	A. $\sin x + c$ B. $-\sin x + c$ C. $\cos x + c$ D. $-\cos x + c$
11	Question Image	A. 1 B. 1/2 C. 0 D. None
12	Question Image	A. 0 B. -2 C. 1 D. 4
13	Question Image	
14	If $\pi \leq x \leq 2\pi$, then $\cos^{-1}(\cos x) =$	A. $\cos x$ B. $-x$ C. $1/x$ D. $-x$
15	$3x + 4 \geq 0$ is	A. equation B. inequality C. identity D. none of these
16	If a polynomial $P(x)$ is divided by $x + a$, then the remiander is	A. $P(a)$ B. $P(-a)$ C. $P(0)$ D. None of these
17	A right angle is the angle of measure	A. $90'$ B. 60° C. $60''$ D. $90''$

D. 90°

18 The set of all positive even integers is

- A. Not a group
- B. A group w.r.t subtraction
- C. A group w.r.t division
- D. A group w.r.t multiplication

19 The axis of the parabola $x^2 = 4ay$ is:

- A. $y = 0$
- B. $x = 0$
- C. $x = -a$
- D. $y = a$

20 $F(x) = x^x$ decreases in the interval

- A. (0, e)
- B. (0, 1)
- C. $(-\infty, 0)$
- D. None