

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The parabola $y^2=4ax$ open up if	A. $a < 0$ B. $a \neq 0$ C. $a > 0$ D. All are incorrect
2	\emptyset is a symbol of	A. singleton set B. Empty set C. Equivalent set D. Infinite set
3	Question Image	
4	Question Image	B. 1 C. 2 D. -2
5	If in a set of real no a is additive identity then	A. $a+a = 2a$ B. $a+a = 1$ C. $a+a = 0$ D. None of these
6	Question Image	
7	The lines that form the cone are called its:	A. Generation B. Circular cone C. nappes D. conics
8	Question Image	A. 0 B. U C. $u/2$ D. $\log u$
9	If $A \subseteq B$ then $A \cup B$ is	A. A B. B C. A' D. $A \cap B$
10	Which is the proper rational function	
11	Question Image	A. $4x + 1$ B. $4x$ C. $2x^{>3}$ D. none of these
12	Question Image	A. $1/2$ B. $1/3$ C. $1/4$ D. None of these
13	The property used in $-3 < -2 \Rightarrow 0 < 1$	A. Commutative property B. Additive property of inequality C. Additive inverse D. Additive identity
14	Question Image	A. $\sin h x$ B. $\cos h x$ C. $\tan h x$ D. $\cot h x$
15	$3j \cdot k \times i$	A. 0 B. 1 C. 3 D. 9
16	Period of $\cos x$ is _____	
17	Sand falls from a tube in such a way that it forms a cone whose height is always $4/3$ times the radius of its base and radius of the base increases at the rate of $1/8$ cm/sec. When this radius is 1 meter, the rate at which the amount of sand increases is	
18	The function $\{f(x,y) y = ax^2 + bx + c\}$ is	A. One-one function B. Constant function C. Onto function D. Quadratic function

19 Two tangents drawn from (2,3) to the circle $x^2+y^2=9$ are

- A. Real and distinct
- B. Imaginary
- C. Real and coincident
- D. None of these

20 1 radian = _____

- A. 60°
- B. 57.296°
- C. 57.2°
- D. 180°