

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$\forall x, y \in \mathbb{R}$ and $x < 0, y < 0$ , which one is true	A. $xy < 0$ B. $xy = 0$ C. $xy > 0$ D. None of these
2	The equation of the circle with centre $(-3, 5)$ and radius 7 is	A. $(x-3)^2 + (y+5)^2 = 7^2$ B. $(x-3)^2 + (y-5)^2 = 7^2$ C. $(x+3)^2 + (y+5)^2 = 7^2$ D. $(x+3)^2 + (y-5)^2 = 7^2$
3	Question Image	A. Closure law of addition B. Associative law of addition C. Additive inverse D. Additive identity
4	Question Image	
5	Question Image	
6	What is the number of elements of the power set of $\{ \}$	A. 0 B. 1 C. 2 D. 3
7	The set of all antiderivatives of $f(x) = \int f(x) dx$ is the	A. Definite integral B. Indefinite integral C. Integral D. Area
8	A number H is said to be the H.M. between a and b if a, H, b are in	A. A.P. B. G.P. C. H.P. D. None of these
9	Question Image	
10	$\sin^{-1} x =$	A. $\tan^{-1} x$ B. $\operatorname{cosec}^{-1} x$ C. $\operatorname{Cosec} x$ D. $\operatorname{cosec}^{-1}(1/x)$
11	Question Image	A. 0 B. U C. $u/2$ D. $\log u$
12	Question Image	
13	Question Image	
14	The period of $\cos(7x-5)$ is	A. $\pi/7$ B. $7\pi/2$ C. $\pi/2$ D. $2\pi/7$
15	Question Image	A. 1 B. 0 C. 5 D. 2
16	Question Image	A. $a \cos(ax + b) + c$ B. $-a \cos(ax + b) + c$
17	Question Image	
18	Question Image	A. Associative law of addition B. Commutative law of addition C. Additive identity D. Closure law of addition

19

Question Image

20

A relation in which the equality is true only for some values of the unknown is called

- A. An identity
- B. An equation
- C. A polynomial
- D. None