

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Which symbolic notation represent unary operation ?	A. - B. $\vee$ C. $\wedge$ D. $\Leftrightarrow$
2	$\sin(2\pi - \theta)$	A. $\cos \theta$ B. $\sin \theta$ C. $\tan \theta$ D. $-\sin \theta$
3	Question Image	
4	The coefficient of the third term of $(8a-b)^{1/3}$ , after simplification is	A. -228 B. $1/288$ C. $1/220$ D. $-1/177$
5	A function whose range is just one element is called	A. One-one function B. Constant function C. Onto function D. Identity function
6	The solution of equation $x^2 + 2 = 0$ in the set of real number is	A. Infinite set B. Singleton set C. Null set D. None of these
7	The fifth term of the sequence $a_n = 2n + 3$ is _____	A. 13 B. -13 C. 8 D. 3
8	Period of $2 \cos x$ is _____	
9	The set of integers is a subset of	A. The set of natural numbers B. The set of whole numbers C. The set of prime numbers D. The set of rational numbers
10	Unit vector in the positive direction of x-axis is	
11	If c is a constant number and if f is the function defined by the equation $f(x) = c$ for all values of x, then f is differentiable at every x and f is defined by the equation $f'(x)$	A. f B. 1 C. C D. 0
12	Question Image	A. $360^\circ$ B. $180^\circ$ C. $90^\circ$ D. None of these
13	The straight line passing through the focus and perpendicular to the directrix of the conic is known as its	A. Tangent B. axis C. Focal chord D. major or minor axis
14	If the distance of any point on the curve from any of the two lines approaches zero then it is called	A. Axis B. Directrices C. Asymptotes D. None
15	In R the right cancellation property w.r.t. addition is	
16	Question Image	A. 0 B. 1 C. -1 D. none of these
17	If $\underline{a}$ and $\underline{b}$ are two vectors then $\underline{a} + \underline{b} =$	A. $\underline{b} + \underline{a}$ B. $\underline{b} - \underline{a}$ C. $\underline{ab}$

C. 32  
D.  $a^b$

18

Question Image

A. 16  
B. 256  
C. 64  
D. 1024

19

E-radius corresponding to  $\angle B$  is

20

Question Image

A. 6  
C. 20  
D. 0