

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The complement of set A relative to universal set U is the set	
2	A circle is a limiting case of an ellipse whose eccentricity	A. Tends to a B. Tends to b C. Tends to 0 D. Tends to a + b
3	Question Image	
4	$\tan \theta/2$	
5	For a square matrix A, if $A = A^t$, then A is called	A. matrix B. Transpose C. Symmetric D. Non-symmetric
6	A sequence is a function whose domain is	A. N B. Subset of N C. R D. None of these
7	Question Image	
8	The set $\{Z \setminus \{0\}\}$ is group w.r.t	A. Addition B. Multiplication C. Division D. Subtraction
9	Question Image	A. $1/x$ B. $-x$ C. $2x$ D. $0.5x$
10	The intercepts of the plane $2x - 3y + 4z = 12$ on the co-ordinate axes are given by	A. 2, -3, 4 B. 6, -4, -3 C. 6, -4, 3 D. 3, -2, 1.5
11	If $f(x) = a_0 + a_1x + a_2x^2 + a_3x^3 + \dots + a_{n-1}x^{n-1} + a_nx^n$ then $f(n)(x)$ is equal to	A. $n!$ B. $ann!$ C. 0 D. an
12	$\sin(\sin^{-1}(1/2)) =$	A. 0 B. 2 C. ∞ D. $1/2$
13	Question Image	A. Multiplication property B. Additive property C. Trichotomy property D. Transitive property of inequality
14	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
15	Question Image	A. 0 B. -1 C. 1 D. $1/2$
16	Question Image	
17	Question Image	A. 3 B. 2 C. 8 D. 0
18	The third term of a G.P. is 4, The product of first five terms is	A. 43 B. 45 C. 46 D. ...

D. None of these

19 $\tan 294^\circ =$ _____;

- A. $\tan 24^\circ$
- B. $-\tan 24^\circ$
- C. $\cot 24^\circ$
- D. $-\cot 24^\circ$

20 Three right angles is the angle of measure

- A. 270°
- B. 180°
- C. 90°
- D. $270'$