

## Mathematics General Science Test Medium Mode


Sr	Questions	Answers Choice
1	Question Image	A. -1 B. 0 C. 1 D. Undefined
2	Question Image	
3	Question Image	A. Principle of equality of fractions B. Rule for product of fractions C. Golden rule of fractions D. Rule for quotient of fractions
4	Question Image	A. $A^{\sup>-</sup>}$ B. $A^{\sup>t</sup>}$ C. -A D. A
5	Question Image	
6	If $A = \{x / x \in \mathbb{R} \wedge x^2 - 16 = 0\}$ then $A =$	A. - x B. Infinite set C. $\Phi$ D. $\{-4,4\}$
7	$n(n - 1) (n - 2)$ in factorial form is	
8	At a point 15 meters away from the base of a 15 meters high house, the angle of elevation of the top is	A. $90^\circ$ B. $60^\circ$ C. $30^\circ$ D. $45^\circ$
9	The integral of $3x^5 dx$ is:	A. $15 x^{\sup>4</sup>}$ B. $x^{\sup>6</sup>}/2$ C. $1/6 x^{\sup>5</sup>}$ D. $x^{\sup>5</sup>}/\ln 3$
10	The coordinates of the point that divides the join of A(-6,3) and B(5, -2) in the ratio 2:3 externally are	
11	$(n + 2) (n + 1)n$ in factorial form is	
12	The period of the function $\csc x/4$ is	A. $4x$ B. $\pi/4$ C. $8\pi$ D. $\pi/8$
13	The sum of the cubes of three consecutive natural number is divisible by	A. 9 B. 6 C. 5 D. 10
14	Question Image	A. 0 B. -1 C. 1
15	The fifth term of an A.P. Whose first term is 5 and common difference is 3, is	A. 20 B. 17 C. 25 D. 30
16	If the sum of two unit vectors is a unit vector the the magnitude of their difference is	A. $\sqrt{2}$ B. $\sqrt{3}$ C. 1 D. None of these
17	e-radii are denoted by	A. $\eta$ B. $r_2$ C. $r_3$ D. All of these
18	For a square matrix A, if $A = A^t$ , then A is called	A. Matrix B. Transpose C. Symmetric D. Non-symmetric

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If a, b, c are sides of a triangle taken in order then  $a^2 + b^2 - c^2 =$

- A.  $b \times c$
- B.  $b \times a$
- C.  $c \times a$
- D. Both a & b

20

Question Image 

- A.  $2s^2$
- B.  $2s^3$
- C.  $s^3$
- D.  $3s^3$