

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	For any set B, $B \cup B'$ is	A. Is set B B. Set B' C. Universal set D. None of these
2	If A and B are two matrices such that $AB = B$ and $BA = A$ then $A^2 + B^2 =$	A. $2AB$ B. $2BA$ C. $A + B$ D. $AB$
3	Question Image	A. $\cos 3x + c$ B. $-\cos 3x + c$
4	Question Image	
5	$(A \cap B)^c =$	A. $A \cap B$ B. $(A \cup B)^c$ C. $A^c \cup B^c$ D. $\Phi$
6	The order of the differential equation of all conics whose axes coincide with the axes of co-ordinates is	A. 2 B. 3 C. 4 D. 1
7	In R, the additive inverse of a is	A. 0 B. 1 C. $-a$ D. $1/a$
8	The expansion of $(1 - 3x)^{-1}$ is valid if	A. $ x  < 1$ B. $ x  < 3$ C. $ x  < 1/3$ D. None of these
9	Question Image	
10	The sum of n terms of a series is denoted by	A. d B. n C. $S_n$ D. $a_n$
11	i is equal	A. (1, 0) B. (0, 1) C. (1, 1) D. (0, 0)
12	An open sentences formed by using the sign of equality '=' is called _____	A. An identity B. An equation C. A polynomial D. None of these
13	The distance between the points (1, 2) and (2, 1) is	A. 3 B. 6
14	Distance between A(3, 8), B(5, 6) is	
15	If A is skew Hermitian Matrix then which of the following is not skew Hermitian matrix	A. $A^2$ B. $A^5$ C. $A^3$ D. $A^7$
16	$\tan^{-1}x > \cot^{-1}x$ holds for	A. $x > 1$ B. $x < 1$ C. $x = 1$ D. All values of x
17	An equation which holds good for all values of variables is called	A. Equation B. Conditional equation C. Constant D. None
18	Question Image	A. 1 B. 2 C. 3

C. 5  
D. None of these

19  $f(x) = \sin x + \cos^2 x$  is

- A. trigonometric function
- B. algebraic function
- C. exponential function
- D. logarithmic function

20 Question Image

- A. cosec  $x + c$
- B. -cosec  $x + c$
- C. -sec  $x + c$
- D. sec  $x + c$