

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Let A,B, and C be any sets such that $A \cup B = A \cup C$ and $A \cap B = A \cap C$ then	A. $A \neq C$ B. $B = C$ C. $A = B$ D. $A \neq B$
2	Question Image	
3	Question Image	A. Rational B. Irrational C. Even D. Odd
4	A sequence having no last term is called	A. arithmetic sequence B. Geometric sequence C. Finite sequence D. Infinite sequence
5	Question Image	A. A variable B. A constant C. 0 D. None of these
6	The distance of the point (a,b) from y-axis is	A. a B. b C. a + b
7	Question Image	
8	1 radian = _____	A. $180^\circ$ B. $90^\circ$ C. $57.296^\circ$ D. $60^\circ$
9	Question Image	
10	Question Image	A. $C^r$ B. $C^{r+1}$ C. $C^{r+1}$ D. None
11	If A and B are two matrices such that $AB = B$ and $BA = A$ , then $A^2 + B^2 =$	A. 2 AB B. 2 BA C. A + B D. AB
12	Question Image	
13	Power set of X i.e $P(X)$ _____ under the binary operation of union U	A. Forms a group B. Does not form a group C. Has no identity element D. Infinite set although X is infinite
14	The product of the four fourth roots of unity is	A. 0 B. 1 C. -1 D. None of these
15	In school there are 150 students Out of these 80 students enrolled for mathematics class 50 enrolled for English class and 60 enrolled for Physics class The student enrolled for English cannot attend any other class but the students of mathematics and Physics can take two courses at a time Find the number of students who have taken both physics and mathematics.	A. 40 B. 30 C. 50 D. 20
16	Question Image	A. Additive property of inequality B. Commutative property C. Additive inverse D. Additive identity
17	A vertical pole is 8m high and the length of its shadow is 6m. The angle of elevation of the sun of the moment is	A. $57^\circ$ B. $48^\circ$ C. $27^\circ$ D. $53^\circ$
		A. $A = B \neq 0$

- 18 The second degree equation of the form  $Ax^2 + By^2 + Gx + Fy + C = 0$  represent hyperbola if
- B.  $A \neq B$  and both are of same sign  
C.  $A \neq B$  both are of opposite sign  
D. Either  $A = 0$  or  $B = 0$
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- 19 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.  $45^\circ$
- 
- 20 
- A.  $16 / 7$   
B.  $6 / 17$   
C.  $7 / 16$   
D. None of these