

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	In R the number of identity element w.r.t '+' is	A. One B. Two C. Three D. Four
2	Question Image	
3	Question Image	
4	Given X,Y are any two sets such that number of elements in X = 18, number of elements in set Y = 24, and number of elements in set $X \cup Y = 40$, then number of elements in set $X \cap Y =$	A. 3 B. 1 C. 2 D. 4
5	The number of terms in the expansion of $(a + x)^{12}$ is	A. 13 B. 12 C. 11 D. 10
6	The line $Ax + By + C = 0$ will touch the circle $x^2 + y^2 = \lambda$ when	A. $C^2 \leq 4\lambda(A^2 + B^2)$ B. $A^2 \leq 4\lambda(B^2 + C^2)$ C. $B^2 \leq 4\lambda(A^2 + C^2)$ D. None of these
7	Form a group of 5 men and 3 women, a committee of 4 persons is to be selected randomly. The probability that there is a majority of men is	A. $\frac{1}{4}$ B. $\frac{1}{3}$ C. $\frac{1}{2}$ D. $\frac{1}{6}$
8	Power set of X i.e $P(X)$under the binary operation of union \cup	A. Forms a group B. Does not form a group C. Has no identity element D. Infinite set although X is infinite
9	Question Image	
10	Out of 10,000 families with 4 children each, the number of families all of whose children are daughters is	A. 375 B. 500 C. 625 D. 150
11	$120^\circ =$ _____	
12	Question Image	A. $100x^{99}$ B. $100x^{101}$ C. $-99x^{99}$ D. $-100x^{101}$
13	Question Image	A. A B. A' C. U D. A A'
14	If a, b, c are the measures of the sides of a triangle then	
15	Question Image	

16	How many committees of 5 numbers can be chosen from a group of 8 players person when each committee must include 2 particular persons	A. 8! B. 5!3! C. 5! D. 20
17	The law of cosines is	
18	A circle passing through the vertices of any triangle is called	A. Circumcircle B. Incircle C. Escribed circle D. Unit circle
19	If $A \cap B = B$, then $n(A \cap B)$ is equal to	A. $n(a)$ B. $n(a) + n(c)$ C. $n(c)$ D. None of these
20	For trivial solution $ A $ is	A. A B. $ A = 0$ C. $A = 0$ D. $ A \neq 0$