

## General Maths - 9th Class General Mathematics English Medium Chapter 8 Preparation

Q1. Write Set of Odd Numbers?

**Ans 1:** Set of odd numbers is denoted by 'O' is  $O=\{0,1,3,5,\dots\}$ .

Q2. Write Set of Whole Numbers?

**Ans 1:** Set of whole numbers is denoted by 'W' is  $W=\{0,1,2,3,\dots\}$ .

Q3. What is Union of Sets?

**Ans 1:** If A and B are two non-empty sets, then the union of A and B means the set of all those elements which are either present in A or B or in both. It is denoted by  $A \cup B$ .

Q4.

**Ans 1:**

Q5. Write Set of Prime Numbers?

**Ans 1:** Set of prime numbers is denoted by 'P' is  $P=\{2,3,5,7,11,13,\dots\}$ .

Q6.

**Ans 1:**

Q7. What is Complement of a Set?

**Ans 1:** Let A be a sub-set of universal set U, then the complement of A with respect to U, denoted by  $A'$  or  $U-A$  or  $A^c$  is the set of all those elements of U which are not in A.  $A^c=U-A$

Q8. Write Properties of Union Set?

**Ans 1:** There are two properties of unions of sets.  
1. Commutative Law  
2. Associative Law

**Ans 2:** Commutative Law: For any two sets  $A, B$  and  $C$ ,  $A \cup B = B \cup A$

**Ans 3:** Associated Law: For any two sets  $A, B$  and  $C$ ,  $(A \cup B) \cup C = A \cup (B \cup C)$ .

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Q9. What is Function?

**Ans 1:** Any binary " $f$ " between two non empty set  $A$  and  $B$  such that: 1.Domain  $f=A$  2. There Should be no repetition in the first element of ordered pairs contained in  $f$ . Then " $f$ " is called function from  $A$  to  $B$ .

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Q10. Write Set of Even Numbers?

**Ans 1:** Set of even numbers is denoted by ' $E$ ' is  $E=\{2,4,6,8,\dots\}$ .

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