[9] (i) Here, the given sets are disjoint sets.

(ii) Here, the given sets are overlapping

(iii) Here the given sets are overlapping

(iv) Here, the given sets are overlapping

(v) Here, the given sets are overlapping

equal

(v) Hence, the given set of pair is equal

(7)(i) Hence, the set is finite

(ii) Hence, the set is infinite

(iii) Hence, the set is finite

(iv) Hence, the set is finite

(v) Hence, the set is infinite

(8)(i) Hence, the given statement is false

(ii) Hence, the given statement is false

(iii) Hence, the given statement is true

(iv) Hence, the given statement is true

(v) Hence the given statement is true

(ii) Hence, set (Negative natural numbers) is empty

(iii) Hence, set (negative natural numbers) is empty

(iv) Hence, set (integers less than) is not empty

(v) Hence, set (Prime numbers between 17 and 23) is not empty

(6.) Hence both the sets have same number of elements.

Hence, the given set of pairs is equivalent

(ii) Hence the given set of pairs is equal

(iii) Hence the given set of pairs is equal

(iv) Hence, the given set of pairs is

(iii) There are infinite numbers of fractions between 1 and 2

Hence set (Fractions between 1 and 2) is infinite

(iv) There is finite number of people in India

Hence, set (Number of people in India) infinite

(v) There are infinite number of trees in world

Hence, set of trees in world is infinite

(vi) Here set (Prime numbers divisible by 2) is not empty

(iii) Given sets

(8, a, 10, 12) and 3, 2, 4, p)

Hence, the given pair of sets is equivalent

(iii) Given sets

(7, 7, 2, 12) and (1, 2, 7)

Hence, the given pair of sets is equal

(iv) 2, 4, 6, 8, 10) and (a, b, c, e)

Hence the given pair of sets is equivalent

(v) Given (5, 5, 2, 4) and (8, 4, 2, 2)

Hence, the given pair of sets is equal

(vi) We know, integers are infinite

Hence, set of integers are infinite

(iii) We know that, there is no odd numbers between 7 and 8. Hence, the given set is empty.

(iv) We know that, there is no even number that is not divisible by 2. Hence the given set is empty.

(v) We find one element in the given set. Hence, the given set is not empty.

(3) State, which pairs.

(i) (3, 5, 7) and (5, 3, 7)

The elements are same in both the sets. Hence, the given pair of sets is equal.

Exercise - 10 (I)

(i) Set (3, 5, 7, ----) is infinite

(ii) Set (1, 2, 3, 4) is finite

(iii) Set (----, -3, -2, -1, 0, 1, 2) is ~~finite~~ infinite

(iv) Set (20, 30, 40, 50, ----, 200) is finite

(v) set (7, 14, 21 ----, 2401) is finite

(2) We know that, there is no counting number between 5 and 6 Hence, the given set is empty

(ii) There are elements in the set of odd numbers between 7 and 19. Hence, the given set is not empty