

Ex - 10(B)

Q2. If set  $B = \{1, 6, 8, 10, 12, 14\}$ , state which of the following statements are correct and which are wrong:

- i)  $5 \in B$  = wrong  $5 \notin B$  - correct
- ii)  $12 \in B$  - correct
- iii)  $14 \in B$  - correct
- iv)  $9 \in B$ : wrong.  $9 \notin B$  - correct
- v)  $B$  is the set of even number between 2 and 16. True
- vi) 4, 6, 10 are the members of the set  $B$ . True.

Q3. State whether true or false:

- i) Sets  $\{1, 9, 6, 2\}$  and  $\{6, 2, 1, 9\}$  are not the same. False
- ii) Sets  $\{0, 1, 3, 9, 1\}$  and  $\{1, 0, 1, 3, 9\}$  are the same. True
- iii) Sets  $\{5, 4\}$  and  $\{5, 1, 1, 5\}$  are not the same. False.
- iv) Sets  $\{8, 3\}$  and  $\{3, 3, 8\}$  are the same. True.
- v) Collection of vowels used in the word 'ALLAHABAD' forms a set. True.
- vi) If  $P$  is the set of letters in the word 'ROOP', then  $P = \{P, o, o, r\}$ . True.
- vii) If  $M$  is the set of letters used in the word 'MUMBAI', then  $M = \{m, u, b, a, i\}$ . True.

Ex - 10(C)

4. Write each of the following sets in Roster form and also in Set-builder form:

- i) Set of all natural numbers that can divide 21 completely  
ans  $\{1, 3, 7, 21\}$  - Roster form



$\{x|x \text{ is a natural number that divide 24 completely}\}$  set-builder form

ii) Set of odd numbers between 20 and 36.  
ans.  $\{21, 23, 25, 27, 29, 31, 33, 35\}$  Roster form

$\{x|x \text{ is a natural odd number between 20 and 36}\}$  set-builder form

iii) Set of letters used in the word 'CALCUTTA'.

ans.  $\{c, a, l, u, t, t\}$  - Roster form, Roster form

$\{x|x \text{ is a letter in the word 'CALCUTTA'}\}$  set-builder form

iv) Set of names of the first five months of a year

ans.  $\{\text{January, February, March, April, May}\}$  - Roster form.

$\{x|x \text{ is the first five months of a year}\}$  set-builder form.

v) Set of all two-digit numbers that are perfect squares as well.

ans.  $\{16, 25, 36, 49, 64, 81\}$  Roster form

$\{x|x \text{ is the two digit numbers that are perfect squares}\}$  set-builder form

n. Write in Roster form, the set of:

i) The first four odd natural numbers each divisible by 6.

ans.  $\{6, 18, 30, 42\}$

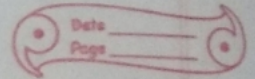
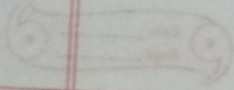
ii) The counting numbers between 15 and 35, each of which divisible by 6.

ans.  $\{18, 24, 30\}$

iii) The names of the last three days of a week.

ans.  $\{\text{Friday, Saturday, Sunday}\}$

iv) The name of the last four months of a year.



ans. { September, October, November, December }

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