

Ex-10 (B)

2) i) $5 \in B$
Sol) Wrong
 $5 \notin B$

iv) sets $\{8, 3\}$ and $\{3, 3, 8\}$
are the same.
Sol) True

i) $12 \in B$
Sol) Correct

v) Collection of vowels used in
the word 'ALAHABAD' forms a set.
Sol) True

iii) $14 \in B$
Sol) Correct

vi) If P is the set of letters
in the word 'loop', then $P = \{p, o, o\}$
Sol) True

ii) $9 \in B$
Sol) Wrong
 $9 \notin B$

vii) If M is the set of
letters used in the word
'MUMBAI', then: $M = \{m, u, b, a, i\}$
Sol) True

7) B is the set of even no.s between
2 and 16.
Sol) Correct

v) ~~Sets~~ 4, 6 and 10 are the members
of the set B.
Sol) Correct

3) i) Sets $\{4, 9, 6, 2\}$ and $\{6, 2, 4, 9\}$ are
not the same.
Sol) ~~False~~ Wrong

ii) Sets $\{0, 1, 3, 9, 4\}$ and $\{4, 0, 1, 3, 9\}$ are
the same.
Sol) True

iii) Sets $\{5, 4\}$ and $\{5, 4, 4, 5\}$ are
not the same.
Sol) False

HW
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Exercise - 10 - (c)

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i) ~~Roster Form~~

Set of all natural numbers that can divide 24 completely.

ans) Roster Form

$$= \{1, 2, 3, 4, 6, 8, 12, 24\}$$

Set-builder Form

$$= \{x : x \text{ is a } \begin{matrix} \text{whole} \\ \text{natural} \end{matrix} \text{ number, that completely divides } 24\}$$

ii) Set of odd numbers between 20 and 35.

ans) Roster Form

$$= \{21, 23, 25, 27, 29, 31, 33\}$$

Set-builder Form

$$= \{x : x \text{ is a } \begin{matrix} \text{odd} \\ \text{whole} \end{matrix} \text{ number between 20 and 35}\}$$

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

ans) Roster Form

$$= \{c, a, l, u, t\}$$

Set-builder Form

$$= \{x : x \text{ is a letter used in the word "CALCUTTA"}\}$$

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

ans) Roster Form

$$= \{\text{January, February, March, April, May}\}$$

Set-builder Form

$$= \{x : x \text{ is a name of the first five months of a year}\}$$

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

ans) Roster Form
{16, 25, 36, 49, 64, 81}

Set-Builder Form
{x: x is a 2-digit whole number that is a perfect square}

5) i) The first four odd natural numbers each divisible by 5.
ans) {5, 15, 25, 35}

ii) the counting numbers between 15 and 35, each of which is divisible by 6.
ans) {18, 24, 30}

iii) the names of the last three days of a week.
ans) {Friday, Saturday, Sunday}

iv) the names of the last four months of a year.
ans) {September, October, November, December}