Dt: 29.9.21 MATH Name: Snehansh Kaur
Sets class: VI 'D'

Exercise - 10 'B'

(2) $B = \{4, 6, 8, 10, 12, 14\}$

i) $5 \in B$ = False
ii) $12 \in B$ = True
iii) $14 \in B$ = True
iv) $9 \in B$ = False
v) B is the set of even numbers between 2 and 16. (False)

True = B is the set of even numbers between 4 and 14.
vi) 4, 6 and 10 are the members of the set B (True)

(3) True / False

i) Sets $\{4, 9, 6, 2\}$ and $\{6, 2, 4, 9\}$ are not the same. (False)
ii) Sets $\{0, 1, 3, 9, 4\}$ and $\{4, 0, 1, 3, 9\}$ are the same. (True)
iii) Sets $\{5, 4\}$ and $\{5, 4, 4, 5\}$ 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 $P = \{p, o, r\}$. (True)
vii) If M is the set of letters used in the word 'MUMBAI', then: $M = \{m, u, b, a, i\}$ (True)

Exercise - 10 'C'

(4) i) Set of all natural numbers that can divide 24 completely.

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

Set-builder - $A = \{x : x$ are all natural numbers that can divide 24 completely$\}$

ii) Set of odd numbers between twenty and thirty-five

Roaster - $A = \{21, 23, 25, 27, 29, 31, 33, 35\}$

Set-builder - $A = \{x : x$ are odd numbers between 20 and 35.$\}$

iii) Set of letters used in the words 'CALCUTTA'

Roaster - $A = \{c, a, l, u, t\}$

Set-builder - $A = \{x : x$ are the letters used in the words 'CALCUTTA'$\}$

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

Roaster - $A = \{$January, February, March, April, May$\}$

Set-builder - $A = \{x : x$ are the names of the first five months of a year$\}$.

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

Roaster - $A = \{16, 25, 36, 49, 64, 81\}$

Set-builder - $A = \{x : x$ are all two-digit numbers that are perfect squares as well$\}$

⑤ i) the first four odd numbers each divisible by 5

$A = \{5, 15, 25, 35, 45\}$

ii) the counting number between 15 and 35 each of which is divisible by 6. $A = \{18, 24, 30\}$

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

$A = \{$Friday, Saturday, Sunday$\}$

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

$A = \{$September, October, November, December$\}$.

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