30/sept/21
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Dt - 29/Sep/21
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Maths (H.W.)

Topic - Ex 10B Q2 & Q3, Ex 10C Q4 & Q5

- Ex 10B

Q2. If set B = {4, 6, 8, 10, 12, 14}, state which of the following statements are correct and which are wrong:

(i) $5 \in B$ - Wrong. $5 \notin B$

(ii) $12 \in B$ - Correct

(iii) $14 \in B$ - Correct

(iv) $9 \in B$ - Wrong $9 \notin B$

(v) B is the set ~~bd~~ of even ~~no~~ numbers between 2 and 16, - Correct

(vi) 4, 6 & 10 are the members of the set B

AU Also, write the wrong statements correctly.

Q3. State whether true or false

(i) Sets {4, 9, 6, 2} and {6, 2, 4, 9} are not the same. - False.

(ii) ~~Sets whether true~~ .

(ii) ~~Set~~ Sets $\{0, 1, 3, 9, 4\}$ and $\{4, 0, 4, 0, 1, 3, 9\}$ are the same. – True.

(iii) Sets $\{5, 4\}$ and $\{5, 4, 4, 5\}$ are ~~the~~ 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~~ in the ~~the~~ word 'MUMBAI' ~~then~~ then: ~~M = {M m~~ $M = \{m, u, b, a, i\}$ – True

## Ex 10C

Q4. Write each of the following sets in Roster (tabular) Form and also in Set-Builder Form:

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

⇒ Roster (tabular) method - $\{1, 2, 3, 4, 6, 8, 12, 24\}$

⇒ Set - Builder method - $\{x : x$ is a natural number which divides 24 completely$\}$

(ii) Set of odd numbers between 20 & 25

⇒ Roster (tabular) method - $\{21, 23, 25, 27, 29, 31, 33\}$

⇒ Set - Builder method - $\{x : x$ is an odd number between 20 & 35$\}$

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

⇒ Roster (tabular) method - $\{C, a, L, u, t\}$

⇒ Set - Builder method - $\{x : x$ is a letter used in the word 'CALCUTTA'$\}$

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

⇒ Roster (tabular) method - {January, February, March, April, May}

⇒ Set-Builder Method – { x : x is a name of first five months of a ~~year~~ ~~Year~~ } ~~&~~ year }

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

~~5. Write, in~~

⇒ Roster (Tabular) method – { 16, 25, 36, 49, ~~&~~ 64, 81 }

⇒ Set-Builder Method – { x : x is a perfect square ~~to~~ ~~two~~ digit number }

5. Write, in Roster Form, the set of :

(i) The first four odd natural numbers each divisible by 5.

⇒ { 5, 15, 25, 35 }

(ii) The ~~coun~~ counting numbers between 15 and 35 ; each of which is divisible by 6.

⇒ { 18, 24, ~~30~~ 30 }

(iii) ~~two~~ The names of ~~the~~ the last three ~~day~~ days of a week.

$\Rightarrow$ {Friday, Saturday, Sunday}

iv) # The names of the last four months of a year.

$\Rightarrow$ {September, October October, November, December}