

Ex-10(c)

- i) The set of first five nos each of which is divisible by 3 in the form is $\{3, 6, 9, 12, 15\}$
- ii) The set of integers between -4 and 4 in Roster form is $\{-3, -2, -1, 0, 1, 2, 3\}$
- iii) The ~~Ros~~ Roster form for a set $\{X\}$ is a letter in the word "SCHOOL" is $\{S, C, H, O, L\}$.

iv) $\{11, 13, 15, 17, 19\}$ is the Roster form for a set $\{x: x \text{ is an odd natural no. between } 10 \text{ and } 20\}$

v) $\{A, E, I\}$ is the Roster form for a set $\{\text{vowels used in the word 'AMERICA'}\}$

(Q2) i) $\{2, 3, 5, 7, 11, 13, 17, 19\}$ is the Roster form for all prime no.s between one and twenty.

ii) $\{1, 4, 9, 16\}$ is the Roster form for the squares of first ~~ten~~ four natural no.s

iii) $\{2, 4, 6, 8\}$ is the Roster form for even no.s between 1 and 9

iv) $\{A, B, C, D, E, F, G, H\}$ is the Roster form for first eight letters of the English alphabet.

v) ~~Basket~~ $\{B, A, S, K, E, T\}$ is the Roster form for the letters of the word ~~basket~~ 'BASKET'

(Q3) i) $\{x: x \text{ is an even natural no. less than } 12\}$ is the Set-builder form for $\{2, 4, 6, 8, 10\}$

ii) $\{x: x \text{ is a prime number less than } 12\}$

is the set-builder form for $\{2, 3, 5, 7, 11\}$

ii) $\{x: x \text{ is a month of the year whose name starts with letter 'J'}\}$ is the set-builder form for $\{\text{January, July, June}\}$

iv) ~~the~~ $\{x: x \text{ is a vowel in English Alphabet}\}$ is the set-builder form for $\{a, e, i, o, u\}$

v) $\{x: x \text{ is a day of the week whose name starts with letter 'T'}\}$ is the set-builder form for $\{\text{Tuesday, Thursday}\}$

(4) i) The Roster form is $\{1, 2, 3, 4, 6, 8, 12, 24\}$

The set-builder form is $\{x: x \text{ is a natural no. which divides 24 completely}\}$

ii) The Roster form is $\{1, 3, 25, 27, 29, 31, 33\}$
The set-builder form is $\{x: x \text{ is an odd no. between 20 and 35}\}$

iii) The Roster form is $\{C, A, L, U, T\}$

iv) The set-builder form is $\{x: x \text{ is a letter used in the word 'CALCUTTA'}\}$

v) The Roster form is $\{\text{January, Feb, March, April, May}\}$

The set-builder form is $\{x : x \text{ is a name of the first five months of a year}\}$

v) The Roster Form is $\{16, 25, 36, 49, 64, 81\}$
The set-builder form is $\{x : x \text{ is a perfect square of two digit number}\}$

(5) i) $\{5, 15, 25, 35\}$ is a Roster form for the first four odd natural nos each divisible by 5.

ii) $\{18, 24, 30\}$ is a Roster form for the counting numbers between 15 and 35, each of which is divisible by 6.

iii) $\{\text{Friday, Saturday, Sunday}\}$ is a Roster form for names of the last three days of a week.

iv) $\{\text{September, October, November, December}\}$ is a Roster form for the last four months of a year.