

Ex - 10(C)

1) Write each of the following sets in Roster form:

- i) The set of five numbers each of which is divisible by 3.  $\{3, 6, 9, 12, 15\}$
- ii) The set of integers between -4 and 4.  $\{-4, -3, -2, -1, 0, 1, 2, 3, 4\}$
- iii)  $\{x : x \text{ is a letter in the word school}\}$ ,  $\{s, c, h, o, l\}$
- iv)  $\{x : x \text{ is a odd natural number between 10 and 20}\}$   
 $\{11, 13, 15, 17, 19\}$
- v)  $\{\text{vowels used in the word 'AMERICA'}\}$ ,  $\{a, e, i\}$
- vi)  $\{\text{consonants used in the word 'MADRAS'}\}$ ,  $\{m, d, r, s\}$

2) Write each given set in Roster form:

- i) All prime numbers between 1 and 20.  $\{2, 3, 5, 7, 11, 13, 17, 19\}$
- ii) The squares of the first four natural numbers.  $\{1, 4, 9, 16\}$
- iii) Even numbers between 1 and 9.  $\{2, 4, 6, 8\}$
- iv) The first eight letters of the English alphabet.  $\{a, b, c, d, e, f, g, h\}$
- v) The letters of the word 'BASKET'.  $\{b, a, s, k, e, t\}$
- vi) Four cities of India whose names starts with letter J.  $\{Jaipur, Jagadhigapur, Jodhpur, Jaisalmer\}$
- vii) Any four closed geometrical figures.  $\{\text{square, circle, triangle, square}\}$
- viii) Vowels used in the word 'MONDAY'.  $\{o, a\}$
- ix) Single digit numbers that are perfect square as well.  $\{0, 1, 4, 9\}$

3) Write each given set in set-builder form:

- i)  $\{2, 4, 6, 8, 10\}$

ans- All the even natural numbers from 2 to 10 [Description form]



$\{M: M \text{ even natural numbers upto } 10\}$

ii)  $\{2, 3, 5, 7, 11\}$

ans  $\{A: A \text{ is the prime numbers below } 12\}$

iii)  $\{\text{January, June, July}\}$

ans  $\{X: X \text{ is the name of month starts with letter J.}\}$

iv)  $\{a, e, i, o, u\}$

ans  $\{C: C \text{ is the vowels of the english alphabet.}\}$

v)  $\{\text{Tuesday, Thursday}\}$

ans  $\{X: X \text{ is the name of the days that starts with T}\}$

vi)  $\{1, 4, 9, 16, 25\}$

ans-

vii)  $\{5, 10, 15, 20, 25, 30\}$

ans  $\{X: X \text{ is the numbers that divide with } 5\}$

4) Write each of the following sets in Roster form and also in Set - Builder form:

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

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

$\{P: P \text{ is the number which divides the } 24 \text{ completely}\}$

ii) Set of odd numbers between 20 and 25.

ans  $\{21, 23\}$

$\{Q: Q \text{ is the odd numbers between } 20 \text{ and } 25.\}$

iii) Set of letters used in the word 'CALCUTTA',  
ans.  $\{c, a, l, u, t, t\}$   
•  $\{A: A \text{ is the } \text{letters} \text{ used in word 'calcutta'}\}$

iv) Set of names of the first five months of a year.  
ans.  $\{\text{January, February, March, April, May}\}$   
 $\{x: x \text{ is the first five months of a year.}\}$

5) Write in roster form, the set of:

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  
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 names of the last four months of a year.  
ans.  $\{\text{September, October, November, December}\}$

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