NAME - JAGADISH PANUGRAHI
CLASS - VI, SEC - A, SCHOOL NO. 4659

EXERCISE - 10(C)

1. (i) The set of five numbers each of which divisible by 3 = {3, 6, 9, 12, 15}
(ii) The set of integer between -4 and 4 = {-3, -2, -1, 0, 1, 2, 3}
(iii) {x : x is a letter in the word, 'SCHOOL'} = {S, C, H, O, L}
(iv) {X : X is an odd natural number between 10 and 20} = {11, 13, 15, 17, 19}
(v) {Vowels used in the word 'AMERICA'} = {A, E, I}
(vi) {Consonants used in word 'MADRAS'} = {M, D, R, S}

2. (i) All prime numbers between 1 and 20 = {2, 3, 5, 7, 11, 13, 17, 19}
(ii) The squares of the first four natural number = $\{1^2, 2^2, 3^2, 4^2\}$ = {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 start with the letter J. = {Jaipur, Jodhpur, Jalandhar, Jhansi}
(vii) Any four closed geometrical figures = {○, □, △ and ⌂}
(viii) Vowels used in the word 'MONDAY' = {O, A}
(ix) Single digit numbers that are perfect squares as well = $\{0^2, 1^2, 2^2, 3^2\}$ = {0, 1, 4, 9}

3. (i) {2, 4, 6, 8, 10} = {X : X is an even natural number less than 12}

(ii) {2, 3, 5, 7, 11} = {x : x is a prime number less than 12}

(iii) {January, June, July} = {x : x is a month whose name starts with letter J}

(iv) {a, e, i, o, u} = {x : x is a vowel in English alphabet}

(v) {Tuesday, Thursday} = {x : x is a day of the the week whose name starts with letter T}

(vi) {1, 4, 9, 16, 25} = {x : x is a perfect squares natural number upto 25}

(vii) {5, 10, 15, 20, 25, 30} = {x : x is a natural number upto 30 and divisible by 5}

4(i) Set of all natural numbers that can divide 24 completely :-
:- Roster (tabular) Form :- {1, 2, 3, 4, 6, 8, 12, 24} set-Builder form :- {x : x is a natural number which divides 24 completely}

(ii) Set of odd numbers between 20 and 35 :- Roster (tabular) form - {21, 23, 25, 27, 29, 31, 33}, set-Builder form :- {x : x is an odd number between 20 and 35}

(iii) Set of letters used in the word 'CALCUTTA' :- Roster form - {c, a, l, u, t}, set-Builder form - {x : x is a letter in word 'CALCUTTA'}

(iv) Set of names of the first five months of a year -
:- Roster form - {January, February, March, April, May} Set-builder form - {x : x is name of first five months of a year}

(v) Set of all two-digit numbers that are prefect squares as well
ROSTER form - {16, 25, 36, 49, 64, 81}, Set-Builder form -
- {x : x is a prefect square two digit number}.

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

(ii) The counting numbers between 15 and 35; each of which is divisible by 6 - {18, 24, 30}

(iii) The names of the last three days of a week -
- {Friday, Saturday, Sunday}

(iv) The names of the last four months of a year :-
- {September, October, November, December}