

1. (i) $\{3, 6, 9, 12, 15\}$

(ii) $\{-3, -2, -1, 0, 1, 2, 3\}$

(iii) $\{s, e, h, o, l\}$

(iv) $\{11, 13, 15, 17, 19\}$

(v) $\{a, e, i\}$

(vi) $\{m, d, n, s\}$

2. (i) $\{2, 3, 5, 7, 11, 13, 17, 19\}$

(ii) $\{1^2, 2^2, 3^2, 4^2\} = \{1, 4, 9, 16\}$

(iii) $\{2, 4, 6, 8\}$

(iv) $\{a, b, c, d, e, f, g, h\}$

(v) $\{b, a, s, k, e, t\}$

(vi) $\{Jaipur, Jodhpur, Jalandhar, Jhansi\}$

(vii) $\{\triangle, \square, \square, \diamond\}$

(viii) $\{0, a\}$

(ix) $\{0, 1, 4, 9\}$ as $0 = 0^2, 1 = 1^2, 4 = 2^2$

and $9 = 3^2$

3 (i) $\exists x : x$ is ~~an~~ an even

natural number less than 12 }
}

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

iii) $\exists x : x$ is a month whose name
starts with letter J }
}

iv) $\exists x : x$ is a vowel in English
alphabet }
}

v) $\exists x : x$ is a day of the week
whose name starts with letter
T }
}

vi) $\exists x : x$ is a perfect square
natural number upto 25 }
} 30 and divisible
by 5 }
}

vii) $\{x : x \text{ is a natural number upto } 30 \text{ and divisible by } 5\}$

4. (i) $\{1, 2, 3, 4, 6, 8, 12, 24\}$; $\{x : x \text{ is a natural number which divides } 24 \text{ completely}\}$

(ii) $\{21, 23, 25, 27, 29, 31, 33\}$;

$\{x : x \text{ is a natural number which is odd number between } 20 \text{ and } 35\}$

(iii) $\{c, a, l, u, t\}$; $\{x : x \text{ is a letter used in the word 'CALCUTTA'}\}$

(iv) $\{\text{January, February, March, April, May}\}$; $\{x : x \text{ is name of first five months of a year}\}$

(v) $\{16, 25, 36, 49, 64, 81\}$; $\{x : x \text{ is a perfect square two digit number}\}$

5. (i) { 5, 15, 25, 35 }

(ii) { 18, 24, 30 }

(iii) { Friday, Saturday, Sunday }

(iv) { September, October, November,
December }