(1) i) 2 ∈ A = True

ii) 5, 6 ∈ A = True

iii) 3, 4, 7 ∈ A = False

iv) 2, 8 ∈ A = False

(2) i) 5 ∈ B = False because 5 ∉ B

ii) 12 ∈ B = True

iii) 14 ∈ B = True.

iv) 9 ∈ B = False because 9 ∉ B

v) B is the set of even numbers between 2 to 16. = True

vi) 4, 6, 10 are the members of the set B. = True

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

ii) Sets {0, 1, 3, 9, 4} and {4, 0, 1, 3, 9} are the same = True

iii) Sets {5, 4} and {5, 4, 4, 5} are not the same = False

iv) Sets {8, 3} and {33, 8} are the same = True /

v) Collection of vowels in the set '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 the word 'MUMBAI'; then: M = {m, u, b, a, i} True

(4) i) {1, 2, 3, 4, 5}

ii) {acute angle, ~~equilateral ang~~, obtuse angle, right angle}

iii) {~~acute~~ scalene triangle, equilateral triangle, isoceles triangle}

iv) {mother, father, uncle, aunt, cousin sister, me}

v) {a, e, i, o, u} {b, c, d, f, g, h}

vi) {a, e, i, o}

vii) {narendra modi, indra gandhi, jawaharlal nehru}

(5) a) i) { 3, 8, 5, 15, 12, 7 }

= So the elements of this set are 3, 8, 5, 15, 12, 7.

ii) { c, m, n, o, s }

= So the elements of this set are c, m, n, o, s.

b) i) { 2, 4, 8, 16, 64, 128 }

ii) { 3, 5, 15, 45, 75, 90 }

(6) i) { b, h, o, p, a, l }

ii) { e, a }

iii) { h, n, g, k } m

— X —