Ex - 13.1

1. (i) Sub set ; Super set (ii) Subset (iii) Subset (iv) is less than

2. (i) B = {5, 8} (iv) E = { } (v) F = {8, 7, 9, 5}

3. (ii) B = { } (i) A = {3, 4}

4. (i) B ⊂ A = True (ii) C ⊆ A = False
(iii) D ⊂ C = False (iv) D ⊄ A = False (v) E ⊇ B = False
(vi) A ⊇ B ⊇ E = True

5. (i) A = {a, c} subsets are { } or ∅ , {a} , {c} and {a, c}

(ii) B = {p, q, r} Subsets are { } or ∅ , {p} , {q} , {r} and {p, q, r}

(iv) C = Set of digits used to form the number 1351
Subsets of C are - { } or ∅ , {1}, {3} , {5} , {1, 3} , {3, 5} , {1, 5} and {1, 3, 5}

6. (i) 8 (ii) 5 (iii) 2 (iv) 3

7. (i) A = {4, 6, 8, 10, 12} (ii) B = {9, 11, 13} (iii) C = {5, 7, 11, 13}

(iv) D = {4, 6, 8}