

Ex-10.2

- 1. (i) True
- (ii) True
- (iii) False
- (iv) False
- ~~(v)~~
- 2. (i) Wrong,  $5 \notin B$
- (ii) Correct
- (iii) Correct
- (iv) Wrong,  $9 \notin B$
- (v) Correct
- (vi) Correct

- 4. (i)  $A = \{1, 2, 3, 4, 5\}$
- (ii)  $B = \{ \text{Acute angle, Obtuse angle, Right angle} \}$
- (iii)  $C = \{ \text{Equilateral triangle, Isosceles triangle, Scalene triangle} \}$
- (iv)  $D = \{ \text{Father, Mother, Sister, Me} \}$
- ~~(v)~~
- (v)  $E = \{ b, c, d, f, g \}$
- (vi)  $F = \{ a, e, i, o \}$
- (vii)  $G = \{ \text{Narendra Modi, Dr. Manmohan Singh, A.B. Vaidya, Rajpayle} \}$

and

- 5. (a) (i)  $\{3, 8, 5, 15, 12, 7\}$
- (ii)  $c, m, n, o$  and  $s$
- (b) (i)  $\{2, 4, 8, 16, 64, 128\}$
- (ii)  $\{3, 5, 15, 45, 75, 90\}$

- 3. (i) False  $\{4, 9, 6, 2\} = \text{and } \{6, 4, 9\}$
- (ii) True  $\{0, 1, 3, 4\} = \{4, 0, 1, 3, 9\}$
- (iii) False  $\{5, 4\} = \{5, 4, 4, 5\}$
- (iv) True  $\{8, 3\} = \{3, 3, 8\}$
- (v) True  $\{A\}$
- (vi) True  $P = \{p, o, r\}$

(vii) True  $M = \{m, u, b, a, i\}$

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

(ii)  $\{b, e, n, g, a, l\}$

(iii)  $\{h, o, n, g, k\}$