

# Homework

## Ex-10(B)

1. (i) Wrong (iv)  
(ii) Correct (v)  
(iii) (vi)

1. (i) Wrong (iv) Wrong  
5 ~~∈~~ B 9 ~~∈~~ B

- (ii) Correct (v) Correct  
(iii) Correct (vi) Correct

2. (i) False (iv) True (vii) True  
(ii) True (v) True  
(iii) False (vi) True

## Ex-10cc)

1. (i) Power form

$$A = \{1, 2, 3, 4, 6, 8, 12, 24\}$$

Set-builder form

$A = \{x : x \text{ is a natural number that can divide } 24 \text{ completely}\}$

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

$B = \{x : x \text{ is an odd number between } 20 \text{ and } 35\}$

(iii)  $A = \{c, a, b, u, t\}$

$A = \{x : x \text{ is a letter used in the word 'CALCUTTA'}\}$

(iv)  $B = \{\text{January, February, March, April, May}\}$

$B = \{x : x \text{ is name of first five months of year}\}$

~~(v)~~  $C = \{m\}$

(v)  $C = \{16, 25, 36, 49, 64, 81\}$

$C = \{x : x \text{ is a two-digit number and is a perfect square as well.}\}$

2.

(i)  $A = \{5, 15, 25\}$

(ii)  $B = \{18, 24, 30\}$

(iii)  $C = \{\text{Friday, Saturday, Sunday}\}$

(iv)  $D = \{\text{September, October, November, December}\}$