

(ii) If a number is divisible by 18, it is divisible by 3 and 6. True

(iv) If a divides both b and c completely, then a divides (i) $a+b$ (ii) $a-b$ also completely. True

c. Ch-10 Sets
10(A)

1. State whether or not the following elements form a set; If not, give reason:

(i) All the easy problems in your textbook.

Ans- No; Some problems may be easy for one person but may be difficult to some other person.

(ii) All the three sided figures.

Ans- Yes

(iii) The first five counting numbers.

Ans- Yes

(iv) All the tall boys of your class.

Ans- No; it is ^{not} mentioned that the boys must be taller than which boys.

If we consider three boys A, B and C; boy B can be taller than A but not necessarily taller than C.

(v) The last three days of a week.

Ans- Yes

(vi) All triangles that are difficult to draw.

Ans- No; it may be difficult for one boy to draw a given triangle. But to some other boy, it may be easy to draw the same triangle.

(vii) The first three letters of English alphabet

Ans - Yes

(viii) All tasty fruits.

Ans- No; a fruit may be tasty for one person and may not be tasty to other person.

(ix) All clever boys of class 6.

Ans - No; clever in what respect and from whom out of six?

(x) All good schools in Delhi.

Ans- No; All the people cannot find the same schools as good as others said.

(xi) All the girls in your class, whose heights are less than your height.

Ans- Yes

(xii) All the boys in your, whose heights are

more than your height.

Ans- Yes

(xii) All the problems in your Mathematics book, which are difficult for Amit.

Ans- Yes

Ex-10 (B)

1. If set $A = \{2, 3, 4, 5, 6\}$, state, which of the following statements are true and which are false:

- (i) $2 \in A$ - True
- (ii) $5, 6 \in A$ - True
- (iii) $3, 4, 7 \in A$ - False
- (iv) $2, 8 \in A$ - False

2. If set $B = \{4, 6, 8, 10, 12, 14\}$. State, which of the following statements is correct and which is wrong:

- (i) $5 \in B$ - False
- (ii) $12 \in B$ - True
- (iii) $14 \in B$ - True
- (iv) $9 \in B$ - False
- (v) B is a set of even numbers between 2 and 16.
- (vi) 4, 6 and 10 are the members of the set B.

Also, write the wrong statements correctly.