

EXERCISE 10(A)

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

- (i) All easy problems in your text book.**
- (ii) All three sided figures.**
- (iii) The first five counting numbers.**
- (iv) All the tall boys of your class.**
- (v) The last three days of the week.**
- (vi) All triangle that are difficult to draw.**
- (vii) The first three letters of the English alphabet.**
- (viii) All tasty fruits.**
- (ix) All clever boys of class 6.**
- (x) All good schools in Delhi.**
- (xi) All the girls in your class, whose heights are less than your height.**
- (xii) All the boys in your class, whose heights are more than your height.**
- (xiii) All the problems in your Mathematics book, which are difficult for Amit.**

Solutions:

- (i) No, the given elements do not form a set because some problems may be easy for one person but difficult to some other person. Here the objects are not well defined.
- (ii) Yes, the given elements form a set.
- (iii) Yes, the given elements form a set.
- (iv) No, the objects given here do not form a set because the definition of tall boys is not well defined
- (v) Yes, the given elements form a set
- (vi) No, the objects given here do not form a set, because it may be difficult to draw a given triangle for a boy but it may be easy for another to draw a same triangle
- (vii) Yes, the given elements form a set
- (viii) No, the objects given here do not form a set, because a fruit may be tasty for one person but it may not be tasty for another person
- (ix) No, the objects given here do not form a set, because cleverness of boys is not well defined
- (x) No, the objects given here do not form a set, because all the people do not find the same schools as good as other
- (xi) Yes, the given elements form a set
- (xii) Yes, the given elements form a set
- (xiii) Yes, the given elements form a set