



Sets Ex 1.1 Q1

Each set is a collection, but each collection need not be a set.

For example, a collection of beautiful women in Delhi is just a collection and not a set, for the term beautiful is not well defined. Only well defined collection of objects forms a set.

Sets Ex 1.1 Q2

- (i) The collection of all natural numbers less than 50 forms a set as it is well defined.
- (ii) It is not a set as the term 'good' is not well defined.
- (iii) It forms a set as it is well defined.
- (iv) It is not a set as the term 'most' is not well defined. A writer may be talented in the eye of one person, but he may not be talented in the eye of some other person.
- (v) It is not a set as the term 'difficult' is not well defined.
A topic may be difficult for one person but may not be difficult for another person, so the term 'difficult' is vague.
- (vi) It forms a set as it is well defined.
- (vii) It forms a set as it is well defined.
- (viii) It forms a set as it is well defined.
- (ix) It is not a set as the term 'most dangerous' is not well defined.
The notion of dangerous animals differs from person to person.
- (x) It forms a set as it is well defined.

Sets Ex 1.1 Q3

(i) $4 \in \underline{\underline{A}}$

(ii) $-4 \notin \underline{\underline{A}}$

(iii) $12 \notin \underline{\underline{A}}$

(iv) $9 \in \underline{\underline{A}}$

(v) $0 \in \underline{\underline{A}}$

(vi) $-2 \notin \underline{\underline{A}}$

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