Semantic n/w →

① semantic → meaningful   ∴ semantic n/w
   network → graph   ↑ meaningful graph

② It is used to represent human memory or language.

③ It is used to analyze meaning of words within the sentence.

④ It is a Labelled directed graph.

⑤ It is a graphical way to represent the knowledge in terms of interconnected nodes & arcs.

⑥ Nodes represent ——→ objects
                    → entities
                    → states   } in real world.
                    → attributes
                    → events

⑦ Arcs represent ——→ Relation betn the objects.
  (links/edges)

⑧ Two types of relations ——→

  ⓐ Is·a → "is an instance of"
          → Referes to specific member of a class.
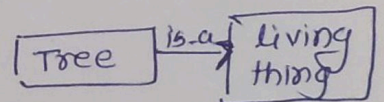   → Relates an instance or individual to generic class.
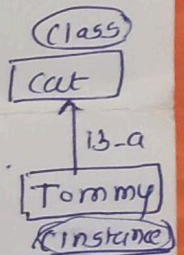
  ⓑ A-kind-of → used to relate one class with other.
     (Ako)   → Relates generic nodes to generic nodes

(Class)
[Cat]
  ↑ is-a
[Tommy]
(instance)

⑨ Semantic nets are easy to understand & can be easily extended

eg→ Tree is a living thing
     ‿‿   ‿‿‿‿ ‿‿‿
     obj relation obj

[Tree] ─is·a→ [Living thing]

* more knowledge can be easily added to this n/w.

eg→ Tree has leaves
     obj ⌣ obj
          R

oak is a tree

[Oak] ─is·a→ [Tree] ─is·a→ [Living thing]
                      │ has
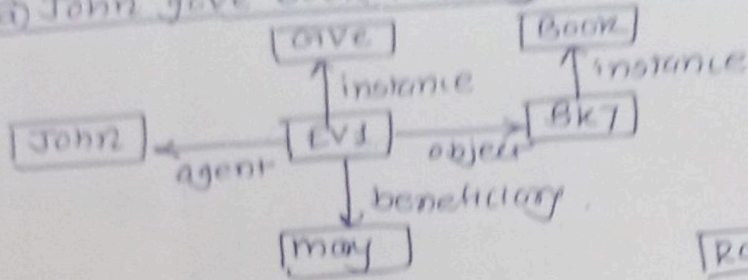   ↓
                   [leaves]
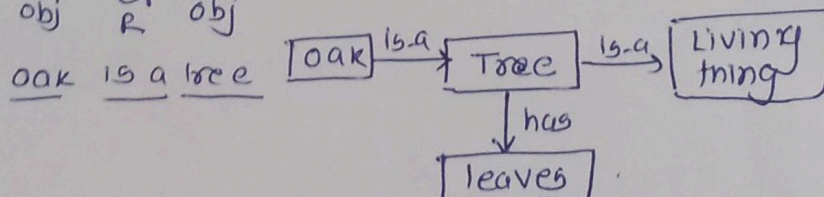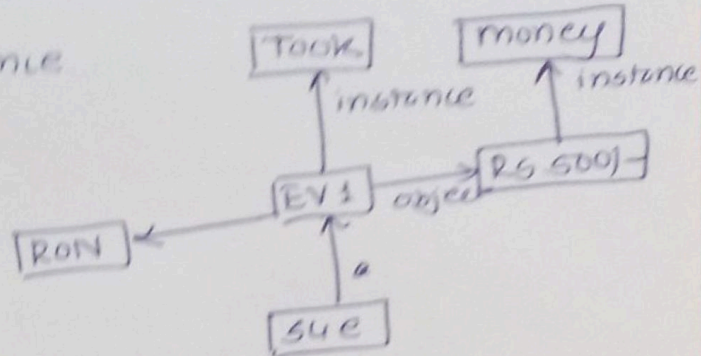
** Tree → Generic node

   oak → Individual node.

① Eg → To show on event

ⓐ John gave book to Mary.

ⓑ Ron took books from Sue.

- First create objects & events.
- Then instances. , BK7 - particular book.
- Then link them. EVL - particular event.

★ Comparision

① John has height H1
  Bill has height H2
  John is taller than Bill.