1.Discuss with suitable examples about the Relations Between Senses

2.Write the FOL Representation for the following sentences.

 I only have five dollars and I don't have a lot of time.

Have(Speaker, FiveDollars) ∧ ¬Have(Speaker, LotOfTime)

AyCaramba is a Mexican restaurant near ICSI

Restaurant(AyCaramba)∧Serves(AyCaramba,MexicanFood)
∧Near((LocationOf(AyCaramba),LocationOf(ICSI))

3.Discuss about modus ponens and explain how it is used in forward and backward chaining?

4.Illustrate Description Logics with suitable examples

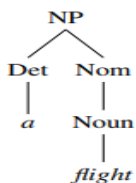5.Write a short notes on Named Entities and Named Entity Tagging

6.Illustrate Hidden markov model with neat sketch

1 Mark Questions

Define Treebank?

A corpus in which every sentence is annotated with a parse tree is called a treebank.

Write the parse tree for " a flight"

Define Strong equivalence

If two grammars generate the same set of strings *and* if they assign the same phrase structure to each sentence

Define Weak equivalence

Two grammars generate the same set of strings but do not assign the same phrase structure to each sentence.

Define CNF

Define Named Entity.

Write FOL representation for All vegetarian restaurants serve vegetarian food.

$$\forall x \; VegetarianRestaurant(x) \Rightarrow Serves(x, VegetarianFood)$$

Define Verifiability

Verifiability is a system's ability to compare the state of affairs described by a representation to the state of affairs in some world as modeled in a knowledge base

Define Model

A model is a formal construct that stands for the particular state of affairs in the world.

Define Inference

The ability to add valid new propositions to a knowledge base

Define Description Logics

It refers to a family of logical approaches that correspond to varying subsets of FOL

Define WordSense?

A sense (or word sense) is a discrete representation of one aspect of the meaning of a word.

Define zeugma

if two senses are distinct is to conjoin two uses of a word in a single sentence; this kind of conjunction of antagonistic readings