

AL 304 Artificial Intelligence
AIML Assignment Question Bank
Unit 2

Q1. What do you understand by representation of knowledge? Explain the characteristics of a good knowledge representation.

Q2. Convert the following sentences to predicate logic

- i) Marcus was a man
- ii) All Pompeians were Roman
- iii) No mortal lives longer than 150 years
- iv) All odd number are not divisible by 3

Q3. Consider the following sentences-

- i) Chini like all kind of food
- ii) Banana is food
- iii) Cake is food
- iv) Fuzi eats bread and is still alive
- v) Coco eat everything Fuzi eats
- vi) Anything anyone eat and is not killed by is food

A) Translate the sentences into formula in predicate logic.

B) Prove that Chini likes bread using resolution.

Q4. Describe the resolution procedure.

Q5. Explain the Unification with suitable example

Q6. Convert the following sentences to predicate logic, clause form and thus prove resolution that – “Marcus was a Roman”

- i) Marcus is a Pompeian.
- ii) All Pompeian were Romans.