**Velammal College of Engineering and Technology, Madurai.**

**Department of Information Technology**

**Subject Code & Name: CS6659/Artificial Intelligence**

**ASSIGNMENT II**

**Year/Semester: III/VI Submission Date: 13.02.18**

**Questions: Total Marks:20**

**1.Apply FOL representation and convert the following sentence. CO1-K3**

(a)Some students took English in spring 2004

(b)Every student who takes English passes it

(c)John is a man

(d)Father of Bill is a teacher

(e)John likes books and music

(f)John lives in a yellow house

(g)If the car belongs to john then it is green

(h)All elephants are gray in color

(i)John likes all kind of foods

(j)Anything any one eats and isn’t killed by is food

**2. Convert the facts in predicate form to clauses and then prove by resolution: “John pays tax” CO1-K3**

**Consider the following fact**

F1: There are 500 employees in ABC Company

F2: Employees earning more than Rs.5000 pay tax

F3: John is a manager in ABC Company

F4: Manager earns Rs.10000

**Instruction**

1. Zero marks will be marked if any students failed to submit the assignment before the deadline ends.

2. If plagiarism(Copied content from your friend assignment) is found in your assignment, again zero marks is marked for both the students.