

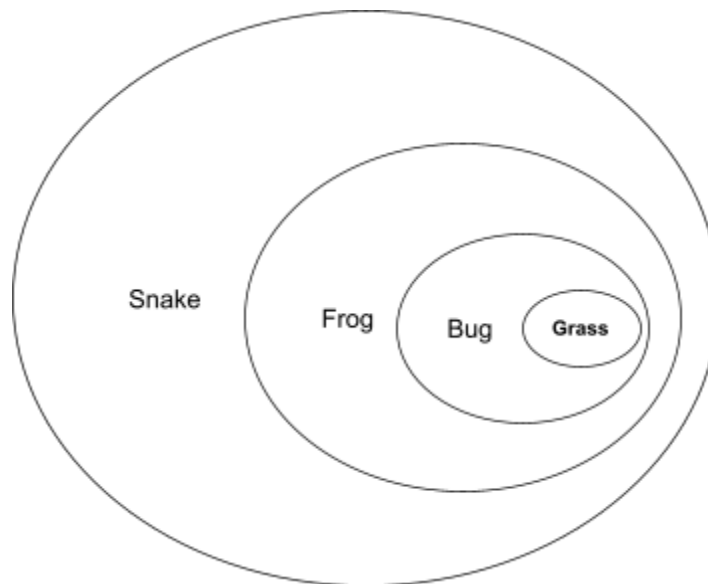
University of Asia Pacific
Dept. of Computer Science and Engineering
Lab Test – 01, Spring-2023

Course Code: CSE 404 Course Title: Artificial Intelligence and Expert Systems Lab
Total Marks: 20 Time: 35 (30+5) Min

Answer the following questions:

1. Imagine a scenario where a bug consumed grass, followed by a frog eating the bug, and then a snake consuming the frog. Write a Prolog program to establish the digestion chain using recursion. For instance, the snake is digesting not only the frog but also the bug and the grass.

[8]



2. Different diseases have specific symptoms, and we determine if someone is sick based on these symptoms. For instance, if someone has symptoms like fever, cough, sneezing, and a runny nose, we might suspect they have the flu. Develop a Knowledge Base (KB) for the diagnosis of diseases like Diarrhoea and Dengue with associated rules. Note that you can assume the symptoms associated with each disease.

[12]