

National University of Computer and Emerging Sciences, CFD Campus

Course: Artificial Intelligence

Quiz No: 01

Total Marks: 25

Total Time: 30 minutes

Roll No: _____

Section: _____

Note: Provide your answers within the space provided on the sheet. No extra sheet allowed.

Q1: Fill in the following environment parameters for the agents to perform accurately. (12 marks)

Environments	Observable	Deterministic	Episodic	Static	Discrete	Agents
Image analysis						
Chess with a clock						
Taxi driving						
Medical diagnosis						
Robot part picking						
Interactive English Tutor						

Q2: Give one example for each type of the agent. (05 marks)

- 1) Simple Reflex Agent
- 2) Model-based Agent
- 3) Goal-based Agent
- 4) Utility-based Agent
- 5) Learning Agent

Q3: For each of the following problems, specify the problem formulation: (08 marks)

1) Vacuum Problem

2) 8-Puzzle Problem

3) Robotic Assembly

4) Airline Travel Problem

Best of Luck!