

QP CODE	2063516501
---------	------------

Reg.No:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

DMI-ST.EUGENE UNIVERSITY
DEGREE EXAMINATION – DECEMBER – 2022

SEM: VI 351CS65 ARTIFICIAL INTELLIGENCE & EXPERT SYSTEMS

Time: 3 Hours

Max. Marks: 100

Answer any Five questions (5 x 20 = 100 Marks)

1. a) What is meant by Artificial Intelligence? (2 Marks)
b) Explain about Narrow, General and Super Intelligence concepts (12 Marks)
c) Discuss in brief about Natural language processing (6 Marks)
2. a) Clearly describe about the BFS algorithm. (10 Marks)
b) A milkman has 2 empty jugs, a 3 gallon jug and 5 gallon jug. How can he measure exactly 1 gallon without wasting any milk? (5 Marks)
c) Mention some disadvantages of Depth First Search algorithms (5 Marks)
3. a) Differentiate forward chaining and backward chaining in AI (12 Marks)
b) Enlist some features of LISP programming (4 Marks)
c) Discuss in brief about some common benefits of AI technology (4 Marks)
4. a) Translate the following English sentences to First Order Logic. (10 Marks)
 - 1) All students are smart.
 - 2) You can fool some of the people all of the time.
 - 3) Every gardener likes the sun.
 - 4) You can fool all of the people some of the time.
 - 5) Elijah is not tall.b) Explain in detail about components of planning system (10 Marks)
5. a) Briefly describe the general steps of expert system development (10 Marks)
b) Describe in detail about Neural Networks (10 Marks)
6. a) Briefly describe any five Artificial Intelligence (AI) techniques (10 Marks)
b) Discuss with short description about some AI applications. (8 Marks)
c) What does IVR mean? (2 Marks)

7. a) As per the law, it is a crime for an American to sell weapons to hostile nations. Country A, an enemy of America, has some missiles, and all the missiles were sold to it by Robert, who is an American citizen. "Prove that "Robert is criminal." (10 Marks)

b) Describe in detail about Human agent and Robot agent (8 Marks)

c) Define the term 'Virtual Reality' (2 Marks)