

Roll No.

Total Pages : 3

BT-7/D-23

47422

ROBOTICS AND INTELLIGENT SYSTEMS

Paper-OE-CS-AIML-401

Time Allowed : 3 Hours]

[Maximum Marks : 75

Note : Attempt **five** questions in all, selecting at least **one** question from each Unit. All questions carry equal marks.

UNIT-I

1. (a) Discuss the main characteristics of robotics.
(b) Write some of the main challenges that are faced in robotics.
2. Explain various types of robots. Also, describe the robotic applications in the following fields:
(a) Defense. (b) Medical.

UNIT-II

3. What is an end effector in robotics? Also, discuss its three basic types.

8. (a) What is Decision Support System (DSS)? Discuss along with the various types of DSS.
- (b) What is NLP? Discuss some of the NLP tasks. Also, describe the term NLU and NLG related to natural language.

