

Roll No.

23727

**M. Tech. 1st Semester (Artificial
Intelligence & Data Science)
Examination – January, 2023**

INTRODUCTION TO INTELLIGENT SYSTEM

Paper : 21MTAI21C2

Time : Three hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Unit. Question Number 1 is *compulsory*. All questions carry equal marks.

1. Write short note on the following : $4 \times 5 = 20$
- (a) Reasoning
 - (b) NCP
 - (c) Robotics
 - (d) Active Sensing

UNIT – I

2. What are Intelligence Systems ? Explain its applications in detail. 20

3. Explain the following : 2 × 10 = 20
(a) Knowledge Representation
(b) Inferences in AI

UNIT – II

4. Describe the concept of Prolog Programming in detail. 20
5. Explain the following : 20
(a) NLP Application
(b) Machine Learning Application

UNIT – III

6. Explain in detail about Computer Vision Application. 20
7. Describe the Robotic Applications in detail. 20

UNIT – IV

8. Give the complete description about Active and Passive Sensing. 20
9. Explain the following : 2 × 10 = 20
(a) Intelligence IoT applications
(b) Neuro-cognition Algorithms