

Roll No. _____

23727

**M. Tech. 1st Semester (Artificial
Intelligence and Data Science)
Examination – February, 2022**

INTRODUCTION TO INTELLIGENT SYSTEM

Paper : 21MT/AD1C2

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 No. 1 is compulsory. All question carry equal marks.

1. Write short note on the following : 5 × 4 = 20

- (a) Intelligence
- (b) Prolog
- (c) Robotics
- (d) IOT

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P. T. O.

UNIT - I

2. What are Intelligent System ? Explain its characteristics. Also describe its types. 20
3. What is knowledge representation in AI ? Explain its types. 20

UNIT - II

4. Describe the concept of prolog programming in detail. 20
5. Explain the following : 20
- (i) Machine learning.
 - (ii) NLP techniques

UNIT - III

6. Explain in detail about computer vision processing techniques. 20
7. Describe application of robotics in detail. 20

23727 - (P-3)/O-8/22) (2)

UNIT - IV

8. What is Active and Passive sensing ? Explain in detail. 20
9. Define IOT. Explain its applications in detail. 20

23727 - (P-3)/O-9/22) (3)