

Roll No.

24333

B. Tech. 6th Semester (IT)

Examination – May, 2019

INTELLIGENT SYSTEMS

Paper : CSE-304-F

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 any *five* questions in all, selecting *one* question from each Section. Question Number 1 is **compulsory**. All questions carry equal marks.

1. Explain the following : 20
 - (a) Describe various AI applications to robotics.
 - (b) What is knowledge base ? How it is different from Database ?
 - (c) Explain the concept of Knowledge Acquisition.
 - (d) Learning by Analogy.

SECTION – A

2. (a) What is the difference between Breadth first search and Depth first search ? Explain with the help of example. 10

24333-4600-(P-3)(Q-9)(19)

P. T. O.

- (b) Explain various problems and their solutions in hill climbing algorithm. 10
3. (a) What is best first strategy ? Explain A^* algorithm with the help of example. 10
 - (b) What is alpha and beta pruning ? Explain with example. 10

SECTION – B

4. (a) Explain various knowledge representation issues in detail. 10
 - (b) Write a short note on with example : 10
 - (i) Frames
 - (ii) Inheritance
 - (iii) Semantic Nets
5. What is reasoning under uncertainty ? Explain review of probability. How Baye's probabilistic interferences theory is helpful for solving probability based problems. 20

SECTION – C

6. (a) Define fuzzy reasoning. What are the various operations on fuzzy sets ? 10
 - (b) Differentiate between planning and partial order planning. 10
7. (a) Explain Non-monotonic reasoning with the help of example. 10
 - (b) What is Symbolic reasoning under uncertainty ? How it is different from temporal reasoning ? 10

24333-4600-(P-3)(Q-9)(19)

(2)

SECTION – D

8. What is an expert system ? Describe the various components of expert system in detail. 20
9. Write short notes on the following : 20
- (a) Artificial neural networks
 - (b) Learning from examples
 - (c) Principles of Natural Language Processing (NLP)

<https://www.haryanapapers.com>

Whatsapp @ 9300930012

Send your old paper & get 10/-

अपने पुराने पेपर्स भेजे और 10 रुपये पायें,

Paytm or Google Pay से