B.Tech 6th Semester (IT) F-Scheme Examination,

May-2017

INTELLIGENT SYSTEM Paper-CSE-304-F

Time allowed: 3 hours]

[Maximum marks: 100

Note: Question No. 1 is compulsory. Attempt five

questions in total selecting one question from each Section. Section and Section Section.

Explain the following:

4x5 = 20

Blind search and heuristic search technique.

- <u></u> 9 Various knowledge representation issues. Partial order planning.
- <u>a</u> Genetic algorithm.

Section-A

(a) Explain intelligence and artificial intelligence. different definitions based on various forms of intelligence. How do you distinguish between the two? Give

Write a program in PROLOG to solve a tower of Hanoi problem.

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20	Write notes on:	W	
10	(b) Describe Dempster Shafer theory.	(b)	
knowledge 10	(a) Describe the properties of knowledge representation system.	(a)	4.
	giving examples. Section-B	AIS	
sts. Explain	to find an optimal goal path if one exists. Explain	. 10	
n guaranteed	Explain AO* algorithm. Is AO* algorithm guaranteed	Exp	•

Baye's theorem Rule based deduction systems

Section-C

9

(a)

(a) Explain non monotonic reasoning

9 What do you mean by planning? Explain various steps in planning process.

Write notes on:

7.

20

Statistical reasoning

(b) Temporal reasoning

Section-D

00 components and applications of an expert system. systems. Mention some advantages and disadvantages of expert What is an expert system? Describe various

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Explain various stages of natural language processing.

Also mention need and advantages of natural language comprocessing.

20 and 20 What do you mean by natural language processing?