

(Please write your Exam Roll No.)

Exam Roll No. 4071

END TERM EXAMINATION

SIXTH SEMESTER [BCA] MAY JUNE 2018

Paper Code: BCA-312

Subject: Artificial Intelligence

Time: 3 Hours

Maximum Marks: 75

Note: Attempt five questions in all including Q.no.1 which is compulsory.
Select one question from each unit.

- Q1 Write short notes **(Any five):-** (5x5=25)
- (a) Heuristic Approach
 - (b) Task domain
 - (c) Expert System
 - (d) Hill Climbing
 - (e) Role Learning
 - (f) Robotic Architecture
 - (g) DFS (Depth First Search)

UNIT-I

- Q2 (a) What is the importance of Artificial Intelligence? Describe it. (6.5)
(b) Discuss issues in design of search program. (6)
- Q3 (a) Explain the various categories of Production System. (6)
(b) What are the elements of AI? Discuss various Application areas of AI. (6.5)

UNIT-II

- Q4 (a) What are the qualities of a good Knowledge Representation System? (6)
(b) What is predicate logic? How Knowledge Representation can be achieved using predicate logic? Illustrate. (6.5)
- Q5 (a) Differentiate between Inheritable Knowledge & Inferential Knowledge. (6)
(b) Describe mapping between facts & representation. (6.5)

UNIT-III

- Q6 (a) Describe Natural Language Processing. Explain various types of NLP techniques. (6)
(b) What is learning? Explain how learning is helpful for AI? (6.5)
- Q7 (a) Comparison between Syntactic Processing & Semantic Processing. (6.5)
(b) Explain discourse & pragmatic processing. (6)

UNIT-IV

- Q8 Why LISP is considered to be appropriate language for AI technique?
Write a LISP program to print factorial of a given number. (12.5)
- Q9 What is Expert System? What are the characteristics of a good Expert System? Explain MYCIN expert system. (12.5)

Mr. John M. C. G. P

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