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205

97693

BCA 6th Semester

Examination – April, 2019

ARTIFICIAL INTELLIGENCE

Paper : BCA-308

Time : Three Hours]

[Maximum Marks : 80

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 questions carry equal marks.

1. Answer the following in brief :

- What is the difference between problem solving and planning?
- What is problem reduction?

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P. T. O.

- (c) What capabilities must a machine possess to be called it as intelligent ?
- (d) What is knowledge representation ?
- (e) Explain the concept of forward chaining.
- (f) Explain the Representing instances.
- (g) Discuss use of heuristic function.
- (h) Explain the importance of Artificial Intelligence.

UNIT - I

1. What is Artificial Intelligence ? Explain the applications areas of Artificial Intelligence in detail.

Also explain the various A. I. techniques in detail.

- (a) Explain Hill climbing and Best first search technique in detail.

5,200-(P-4)(Q-9)(19) (2)

- (b) What is Production System ? Explain its characteristics in detail.

UNIT - II

4. (a) What do you mean by knowledge representation ? What are the characteristics of a knowledge representation system ? Explain how can inheritable knowledge be represented ?

- (b) What is Computable function and predicate ? Explain in detail.

5. (a) Explain the various approaches used in knowledge representation in detail.

- (b) Discuss various inference rules for formal logic.

UNIT - III

6. What is Learning ? Explain Rote learning, learning by taking advice and explanation based learning in detail.

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P. T. O.

7. What are various Processing in NLP (natural language processing) ? Explain syntactic processing, discourse and pragmatic processing in detail.

UNIT - IV

8. (a) What is knowledge ? Explain the components of knowledge base.

(b) Explain the various stages of knowledge acquisition in detail.

9. What is Expert System ? What are the different applications of expert systems ? Also explain the expert system shells.

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