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.

Roll No. .....

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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 :

   (a) What is the difference between problem solving and planning ?

   (b) What is problem reduction ?

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(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

2. What is Artificial Intelligence ? Explain the applications areas of Artificial Intelligence in detail. Also explain the various A. I. techniques in detail.

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

(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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