(b) What is learning ? Explain Rote learning and Explanation based learning in detail.

UNIT – IV

8. What is an Expert system ? What are the different applications of expert systems ? Explain in detail the expert system shells.

9. What is knowledge ? Explain the components of knowledge base. Also explain the various stages of knowledge acquisition in detail.

Roll No. .....

97693

BCA 6th Semester (Re-appear) Examination – November, 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 at least ***one*** question from each Unit. Question No. **1** is ***compulsory***. All questions carry equal marks.

1. Explain the following :

(a) Uses of expert system

(b) Application areas of AI

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(c) Problem space

(d) Uses of heuristic function

(e) Issues in the design of the search problem

(f) Constraint satisfaction

(g) Learning by taking advice

(h) Syntactic processing

UNIT – I

2. (a) Explain the Best first search technique through example.

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

3. What is Artificial Intelligence ? Explain the nature and goals of AI in detail. How AI is related to different fields ? Also explain AI techniques in detail.

UNIT – II

4. Explain the following in detail :

(a) Issues in knowledge representation

(b) Computable function and predicate

5. What do you mean by knowledge representation ? What are the characteristics of a knowledge representation system ? Explain how can inheritable knowledge be represented ? Also explain the various approaches used in knowledge representation.

UNIT – III

6. Explain the following in detail :

(a) Learning in problem solving

(b) Discourse and pragmatic processing

7. (a) What is natural language processing ? Also explain semantic processing in detail.

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