(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

(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.