Roll No. .....

97693

BCA 6th Semester

Examination – April, 2018

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. (a) Explain the importance of Artificial Intelligence.

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

(c) What do you mean by problem reduction ?

(d) What capabilities must a machine possess to be called it as intelligent ?

(e) What is knowledge representation ?

https://www.mdupapers.com

(f) Explain the concept of forward chaining.

(g) Define hill climbing.

(h) Representing instances.

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. Explain the following in detail :

   (a) Production system and its characteristics

   (b) Best first search technique

UNIT – II

4. 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 in detail.

5. Explain the following in detail :

   (a) Represent ting simple facts in logic

   (b) Computable function and predicate

UNIT – III

6. What do you mean by learning ? Explain Rote learning, learning by taking advice and explanation based learning in detail.

7. Explain the following in detail :

   (a) NLP (natural language processing) and Syntactic processing.

   (b) Discourse and pragmatic processing.

UNIT – IV

8. What is Expert system ? What are the different applications of expert systems ? Explain in detail the expert system shells. http://www.HaryanaPapers.com

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

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