Roll No. .....

97693

BCA 6th Semester (New) Examination – November, 2017

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. ***Compulsory*** Question :

   (i) What is artificial intelligence ?

   (ii) List out the steps for solving AI problem.

   (iii) What is heuristic function ? Discuss use of heuristic function.

   (iv) What is production system ? Name its components.

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(v) How reasoning is performed with frame ?

(vi) Differentiate syntactic and semantic processing.

(vii) What is the use of expert system shell ?

(viii) Define inductive learning.

UNIT – I

2. Discuss the importance of AI. How AI is related to different fields ? Discuss the application of AI.

3. What are the various ways to represent the problem ? Discuss with example. How Water Jug problem is represented with these ?

UNIT – II

4. What are different knowledge representation schemes ? How reasoning is performed with these schemes ?

5. Discuss various inference rules for formal logic. How these rules are sound and complete in nature ?

UNIT – III

6. What are various processing schemes in NLP ?

7. What is learning ? Discuss different types of learning with example.

UNIT – IV

8. What is expert system ? Discuss its architecture and why inference engine is considered as knowledge generation component.

9. What is Expert system shell ? How is it useful in expert system and discuss the role of domain specific knowledge in expert system.

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