Roll No.

97693

BCA 6th Semester (Re-Appear) Examination – December, 2022

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 question carry equal marks.
1. (a) What is the difference between AI and Expert

- 1. (a) What is the difference between AI and Expert system?
- (b) What is the difference between Problem solving and Planning?
- (c) What is knowledge representation?
- (d) What is problem reduction?
- (e) What capabilities must a machine possess to be called it as intelligent?

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- (f) Explain the concept of explanation based learning.
- (g) Explain the concept of representing instances.
- (h) Explain the importance of Artificial Intelligence.

I – LINO

- (a) What is Artificial Intelligence? Explain the applications areas of Artificial Intelligence in detail.
- (b) What is Production System ? Explain it characteristics in detail.
- 3. Explain the following in detail:
- (a) Various A.I. techniques
- (b) Hill climbing and Best first search technique

II - TINU

- Explain the following in detail:
- (a) Computable function and predicate
- (b) Representing simple facts in logic
- 5. (a) Explain the issues in knowledge representation in detail. Also explain how can inheritable knowledge be represented?
- (b) Explain the various approaches used in knowledge representation in detail.

III - TINU

- 6. What is learning? Explain learning from example-induction, learning by taking advice and learning in problem solving in detail.
- 7. What are various Processing in NLP (Natural Language Processing)? Explain Syntactic processing. Discourse and Pragmatic processing in detail.

VI - TINU

- 8. What is Expert system? What are the different applications of expert systems? Explain in detail.
- What do you mean by Expert system shells? Explain in detail. Also explain the importance of expert system shell in development of expert system.

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