

97693

BCA 6th Semester (Only Re-appear)

Examination, December-2024

ARTIFICIAL INTELLIGENCE

Paper-BCA-308

Time allowed : 3 hours]

[Maximum marks : 80

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) Importance of AI
- (b) Problem space.
- (c) Syntactic processing
- (d) Representing instances
- (e) Uses of expert system
- (f) Representing simple facts in logic
- (g) Constraint satisfaction
- (h) Learning by taking advice

8×2=16

Unit-I

2. Explain the AI (Artificial Intelligence) and its related field in detail. Also explain AI techniques in detail. 16

3. Explain the following in detail :
- (a) Hill Climbing 8
 - (b) Issues in the design of the search problem 8

Unit-II

4. Explain the following in detail :
- (a) Computable function and predicate 8
 - (b) Various approaches used in knowledge representation 8
5. What do you mean knowledge representation? What are the characteristics of a knowledge representation system? Explain how can inheritable knowledge be represented? 16

Unit-III

6. (a) What is natural language processing? Also explain semantic processing in detail. 8
- (b) What is Learning? Explain rote learning and explanation based learning in detail. 8
7. Explain the following in detail :
- (a) Learning in problem solving 8
 - (b) Discourse and pragmatic processing 8

Unit-IV

8. What is Knowledge? Explain the concept of representing using domain specific knowledge in detail. 16
9. (a) What is an Expert System? What are the different applications of expert systems? 8
- (b) Explain the concept of expert system shells in detail. 8