

2122
B.E. (Computer Science and Engineering)
Fifth Semester
CS-503: Artificial Intelligence

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Attempt the following:-

- a) Differentiate between Weak AI and Strong AI.
- b) Distinguish between Uninformed Search and Informed Search.
- c) Compare Forward and Backward reasoning.
- d) Where is Fuzzy Logic used?
- e) What do you mean by Default Logic? (5x2)

UNIT - I

- II. a) What is criteria of success in Artificial Intelligence? Explain using examples.
b) Compare Generate and test search and hill climbing search techniques using suitable examples. (2x5)
- III. a) Compare Mean-end Analysis and Min-Max search techniques using examples.
b) Demonstrate Alpha-Beta Pruning using a suitable example. (2x5)
- IV. a) Compare different approaches to Knowledge representation? Explain using examples.
b) Compare various types of Knowledge representation using examples. (2x5)

UNIT - II

- V. a) Compare Non-monotonic Logic and Monotonic Logic. Discuss various types of non-monotonic logic.
b) How does Defuzzification take place? Illustrate using examples. (2x5)

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(2)

- VI. . a) Compare Hierarchical planning and conditional planning using suitable examples.
b) Compare various forms of learning using examples. (2x5)
- VII. a) Differentiate between Expert System and Conventional System using suitable examples.
b) Compare Rule base Expert systems and Decision tree base Expert Systems using examples. (2x5)

x-x-x