

Set-1

AI Set-I

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(10)

Please Note : CARBON COPY IS NOT REQUIRED

MANUSCRIPT

For the Candidates Admitted from 2003-2004 Onwards

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Scheme for Valuation

Approved by Chairman /

Prepared : YES / NO

Scrutinising Board with Date 13.10.23

Total No. of Pages 14

B.C.A DEGREE EXAMINATION NOVEMBER 2023

Part - II / III Subject : ARTIFICIAL INTELLIGENCE Major / Allied / Elective

Time : Artificial Intelligence Maximum Marks : 75

Time : 3 hrs.

PART-A (10 x 2 = 20)

Answer All the Questions

1. What is AI?
2. What are the four different kinds of agent programs?
3. Define Best-first-search.
4. What is Hill-climbing search?
5. Define a knowledge Base
6. Write the two aspects of knowledge representation language?
7. What are the different types of planning?
8. What is supervised Learning?
9. What are Expert Systems?
10. Mention some of the key applications of ES.

Section - B (5 x 5 = 30)

Answer All Questions, Choosing either (a) or (b)

11. a) Explain the characteristics used to classify problems in AI. [OR]
b) Explain Production system and its types.
12. a) Compare Blind search and Heuristic Search strategies [OR]
b) Discuss the problem faced by hill-climbing search?

13. a) Differentiate propositional & predicate logic. [OR]
b) ~~Explain~~ ^{Explain} what are the issues in knowledge representation?
14. a) What are the components of Propositional Logic? [OR]
b) Discuss the ^{Basic} Components of a Planning System
15. a) Write are the Applications of Expert System? [OR]
b) Write short notes on Knowledge engineering

SECTION-C (3 x 10 = 30)
ANSWER ANY 3 OUT OF 5 QUESTIONS

16. Explain briefly ~~about~~ ^{the} Representation of State Space problem. ^{with example}
17. Discuss briefly about Hill Climbing method with its Algorithm
18. Discuss ~~briefly about~~ ^{the} Rule Based Approach in knowledge representation ^{with example}
19. Discuss the simple facts involved in Predicate Logic with example.
20. Explain ~~briefly~~ ⁱⁿ about the steps involved Development of Expert Systems [^]
