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MANUSCRIPT

For the Candidates Admitted from \_\_\_\_\_ Onwards

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Serial No. 4208

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Scheme for Valuation

Approved by Chairman /

Prepared : YES / NO

Scrutinising Board with Date } \_\_\_\_\_

Total No. of Pages 14

B.C.A DEGREE EXAMINATION NOV 2023

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

Time : \_\_\_\_\_ Maximum Marks : 75

**PART-A ( 10 x 2 = 20 )**

**Answer All the Questions**

1. What can AI do today?
2. What are the four different kinds of agent programs?
3. What is a heuristic function?
4. What are the different types of problem?
5. What are the three levels in describing knowledge based agent?
6. Define the terms of First-order Predicate logic (FOPL)
7. Define natural deduction.
8. Define Unsupervised learning.
9. Define Logic programming
10. What are Expert Systems?

**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. Write short notes on State Spaces.

- 12.a. Explain About Generate-And-Test Algorithm [OR]  
 b. Explain Means-Ends Analysis with its algorithm.

- 13.a. What are the different types of Knowledge? Explain  
 Write about Types of Knowledge. [OR]  
 b. Write about the overview of Frame structure.



14.a. Write short notes on Backward Chaining: [OR]

b. What are the components of Propositional Logic?

15.a. Define forward and backward chaining. Differentiate the same. [OR]

b. List the characteristic features of an expert system.

**SECTION-C ( 3 x 10 = 30 )**

**ANSWER ANY 3 OUT OF 5 QUESTIONS**

16. Discuss briefly about Techniques used in Artificial Intelligence.

17. Explain briefly about constraint satisfaction problem with its tasks.

18. Discuss briefly about Types of knowledge in AI. *the three ca*

19. Discuss the Basic Components of a Planning System

20. Explain briefly about various Stages in the Development of an Expert System

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*18. Discuss the various categories of knowledge in AI*