



V. Sambath

Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment Test I – February 2025
IV SEMESTER

Class : II UG (Repeaters)
Major : Computer Applications

Time: 2 hours
Maximum Marks: 60

18BCAC17/21BCAC17 Artificial Intelligence and Expert Systems

Course Outcomes:

1. Examine various AI search algorithms:
2. Describe the fundamentals of knowledge representation.
3. Analyze search methods appropriate to AI problems.
4. Comprehend various forms of learning.
5. Exhibit working knowledge in PROLOG

Part-A

6x1=6

Choose the correct answer

1. Which among the following is an AI agent that perceives and acts upon the environment. CO1K1
a. Sensors b. Perceiver c. Actuators d. Both a and c
2. Artificial Intelligence is about _____. CO1K1
a. Playing a game on Computer b. Making a machine Intelligent
c. Programming on Machine with your Own Intelligence d. Putting your intelligence in Machine
3. Which is an application of Artificial Intelligence? CO2K1
c. Expert Systems b. Gaming c. Vision Systems d. All of the above
4. Among the given options, which search algorithm requires less memory? CO2K1
a. Optimal Search b. Depth First Search c. Breadth-First Search d. Linear Search
5. For propositional Logic, which statement is false? CO3K3
a. The sentences of Propositional logic can have answers other than True or False.
b. Each sentence is a declarative sentence.
c. Propositional logic is a knowledge representation technique in AI.
d. None of the above
6. First order logic Statements contains _____. CO3K3
a. Predicate and Preposition b. Subject and an Object c. Predicate and Subject d. Subject

Part- B

3x6=18

Answer ALL Questions

7. a. Write on the History of Artificial Intelligence. CO1K2
(or)
7. b. Write short notes on Foundations of Artificial Intelligence. CO1K2
8. a. Which best describe the feature of hill-climbing search in AI? CO2K2
(or)
8. b. Which algorithm is better A * or AO *? CO2K2
9. a. Why logic is used in artificial intelligence? CO3K2
(or)
9. b. How propositional logic can be used in AI? CO3K3

Part-C

3x12=36

Answer ALL questions

10. a. Discuss the steps involved in problem-solving agent. CO1 K2
(or)
10. b. Describe the nature of environment in artificial intelligence. CO1 K2
11. a. Explain, would Depth first search find the goal. CO2 K5
(or)
11. b. Discuss Breadth first search. CO2 K5
12. a. List and explain the different types of logic used in reasoning in artificial intelligence? CO3 K5
(or)
12. b. How do you prove tautologies? Explain. CO3 K5

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Staff in-charge: Dr. V. Kumutha