

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086**  
**(For candidates admitted during the academic year 2019 – 2020 and thereafter)**

**M.Sc. DEGREE EXAMINATION, NOVEMBER 2023**  
**INFORMATION TECHNOLOGY**  
**THIRD SEMESTER**

**COURSE : CORE**  
**PAPER : ARTIFICIAL INTELLIGENCE**  
**SUBJECT CODE : 19CS/PC/AI35**  
**TIME : 1 1/2 HOURS** **MAX. MARKS: 50**

**SECTION – A**

**ANSWER ALL THE QUESTIONS:**

**(5x2=10)**

1. What is an AI Technique?
2. Enumerate the differences between Procedural and Declarative Knowledge.
3. Why do we use Iterative Deepening?
4. Define: Rote learning.
5. List any two examples of expert systems.

**SECTION – B**

**ANSWER ANY FOUR QUESTIONS:**

**(4x5=20)**

6. Enumerate the types of heuristic search techniques and explain any one in detail.
7. Discuss about fuzzy logic.
8. Compare and Contrast forward versus backward reasoning.
9. Explain Characteristics of semantic analysis in natural language processing.
10. Describe Hopfield neural networks.
11. Illustrate the significance of Knowledge Acquisition in AI.

**SECTION – C**

**ANSWER ANY TWO QUESTIONS:**

**(2x10=20)**

12. Write short notes on Predicate Logic.
13. Describe the features of neural net learning and Genetic learning.
14. Explain the Architecture of expert systems with neat diagram.

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