

S.NO: 22N1- PCS

Course Code: PGXE1

A.D.M.COLLEGE FOR WOMEN, NAGAPATTINAM

(AUTONOMOUS)

M.Sc (Computer Science) Degree Examination

I Semester – November – 2022

EC I – ARTIFICIAL INTELLIGENCE

Time: 3 hours

Maximum Marks: 75

Section –A

10X2=20

Answer ALL the Questions

1. Define Artificial Intelligence.
2. Define Production system.
3. What do you mean by mean end analysis?
4. Define Heuristic function.
5. What is predicate logic?
6. What does instance mean ?
7. Define Logic programming.
8. What is meant by matching in AI?
9. Define Speech Recognition
10. Define Expert System.

Section -B

5X5=25

Answer **ALL** the Questions

11. a) What are the problems underlying with AI? Discuss.

(or)

b) Give a detailed note on tic-tac-toe technique with an example.

12. a) Write about Generate-and-test search technique in detail.

(or)

b) List and explain the different types of issues in knowledge representation.

13. a) Describe about the computational functions and predicates.

(or)

b) How to represent simple facts in logic? Discuss.

14. a) Distinguish between Procedural and Declarative knowledge.

(or)

b) Give a note on Control knowledge.

15. a) Write short note on expert system shell.

(or)

b) List and explain the capabilities of Expert system.

Section -C

3 X 10 = 30

Answer any **THREE** Questions

16. Explain about State space search with an example.
17. What are the approaches to knowledge representation? Discuss.
18. Explain resolution in predicate logic with suitable example.
19. List out the key differences between the forward versus backward reasoning.
20. Briefly explain the Minmax search procedure with an example.

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