D 122483 (Pages : 2) Name.......................................

Reg. No................................

SECOND SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY) EXAMINATION, APRIL 2025

(CBCSS)

Computer Science

CSS 2C 09—COMPUTATIONAL INTELLIGENCES

(2019 Admission onwards)

Time : Three Hours Maximum : 30 Weightage

Section A

Answer any **four** *questions.*

Each question carries 2 weightage.

1. Mention the advantages of artificial intelligence.

2. Define heuristics search.

3. What is meant by problem reduction ?

4. Give a note on knowledge engineering in artificial intelligence.

5. What is formal learning theory ?

6. Define expert system.

7. List out the operators of genetic algorithm.

(4 × 2 = 8 weightage)

Section B

Answer any **four** *questions.*

Each question carries 3 weightage.

8. Mention the characteristics of artificial intelligence.

9. Write a note on recursive search.

10. Define logic programming.

11. What is conceptual dependency ?

Turn over

12. How generic algorithm works ?

13. Discuss about additional refinement.

14. What is planning system in artificial intelligence ?

(4 × 3 = 12 weightage)

Section C

Answer any **two** *questions.*

Each question carries 5 *weightage.*

15. Write down the strategies for state space search.

16. Explain about the Blackboard architecture for problem solving.

17. Discuss in detail about Breadth first search.

18. Describe Expert system life cycle in detail.

(2 × 5 = 10 weightage)