C 42758 **(Pages : 2)** **Name.....**

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY) EXAMINATION, APRIL 2023

(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. Define predicate calculus.
2. What is meant by complexity issues ?
3. Define monotonic reasoning.
4. What are the rules for knowledge representation in artificial intelligence ?
5. Write about connectionist models.
6. List out the types of search algorithm in artificial intelligence.
7. Define genetic programming.

(4 × 2 = 8 weightage)

Section B

Answer any **four** *questions.*
Each question carries 3 *weightage.*

8. What is inference rules ? Mention its types.
9. Write a note on constraint satisfaction.
10. Describe symbolic reasoning under uncertainty.
11. Discuss about mini-max search procedure.
12. Give a brief note on analogy.

Turn over

13. Illustrate adding alpha-beta cut offs in artificial intelligence.

14. Write any components of planning system.

(4 × 3 = 12 weightage)

Section C

Answer any **two** *questions.*
Each question carries 5 *weightage.*

15. What is artificial intelligence ? Explain its advantages and disadvantages.

16. How means-ends analysis Works ? Explain in detail.

17. Write a detailed note on depth first search.

18. Discuss about Hopfield networks.

(2 × 5 = 10 weightage)