

C 83037

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Name.....

Reg. No.....

**SECOND SEMESTER M.A./M.Sc./M.Com. DEGREE EXAMINATION
JUNE 2020**

(CBCSS)

Computer Science

CSS 2C 09—COMPUTATIONAL INTELLIGENCES

(2019 Admissions)

Time : Three Hours

Maximum : 30 Weightage

Section A

Answer any four questions.

Each question carries 2 weightage.

1. Explain the term "Artificial Intelligence".
2. Give the purpose of "difference table" in Means-Ends analysis.
3. Differentiate Procedural and declarative knowledge representation.
4. What do you mean by Symbolic reasoning ?
5. Explain the term "understanding" with respect to AI.
6. Explain the term "Genetic Programming"
7. Give the general structure of an artificial neural network.

(4 × 2 = 8 weightage)

Section B

Answer any four questions.

Each question carries 3 weightage.

8. Discuss Production system and its characteristics.
9. Summarize the different strategies for state space search.
10. Summarize the steps in Best-first search.
11. Explain an algorithm for "Resolution" in Predicate Logic.
12. Summarize the steps in iterative deepening.

13. Illustrate "Frames" with suitable example.
14. Give an overview of how the concepts in "artificial life" are used for solving problems.
(4 × 3 = 12 weightage)

Section C

Answer any two questions.

Each question carries 5 weightage.

15. Demonstrate Forward and Backward reasoning with examples.
16. Explain Constraint satisfaction algorithm.
17. Summarize concepts in "Expert System Lifecycle". Identify the features of any *one* Expert system Tool.
18. Analyse the concepts of Hopfield networks. Demonstrate working of Hopfield net with an example.
(2 × 5 = 10 weightage)

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