

**D 102140**

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Name.....

Reg. No.....

**SECOND SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, APRIL 2024**

(CBCSS)

Computer Science

CSS 2C 09—COMPUTATIONAL INTELLIGENCE

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

**Section A***Answer any **four** questions.**Each question carries 2 weightage.*

1. Define artificial intelligence.
2. What is generate and test in heuristics search ?
3. Give a note on iterative deepening.
4. Define scripts.
5. What is back propagation ?
6. Mention the characteristics of expert system in artificial intelligence.
7. Write about DENDRAL expert system.

(4 × 2 = 8 weightage)

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

8. List out the applications of artificial intelligence.
9. Write a short note on Hill Climbing.
10. What is natural deduction ?

**Turn over**

11. How important are semantic networks in artificial intelligence ?
12. Define explanation based learning.
13. Explain about problem space and search.
14. Write about knowledge acquisition.

(4 × 3 = 12 weightage)

### Section C

*Answer any **two** questions.*

*Each question carries 5 weightage.*

15. Write a short note on unification with an example.
16. Discuss about Best first search algorithm.
17. Distinguish between forward reasoning and backward reasoning.
18. How to build the MYCIN expert system ? Explain in detail.

(2 × 5 = 10 weightage)