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Name.....

Reg. No.....

**FIRST SEMESTER M.C.A. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, NOVEMBER 2021**

MCA

MCA 20 104—COMPUTATIONAL INTELLIGENCE

(2020 Syllabus Year)

Time : Three Hours

Maximum : 100 Marks

*Answer any five full questions.**Each question carries 20 marks.*

1. (A) What is the Underlying Assumption in Artificial intelligence ? Explain an AI Technique.
(B) Explain production system characteristics in AI
2. (A) Explain Best-first search algorithm and its strategy.
(B) Explain AO algorithm with backward propagation.
3. (A) With examples Illustrate representing simple facts in logic.
(B) Explain Computable functions and predicates with an example.
4. (A) Explain Knowledge reasoning with logical agents.
(B) What is Reinforcement learning ? explain with a suitable diagram.
5. (A) Explain Additional Refinements in Game Playing.
(B) Explain expert system life cycle with examples of expert system.
6. (A) Explain the predictable calculus and inference rules in AI.
(B) Describe Means-Ends Analysis Algorithm.
7. (A) Write short notes on : (i) Forward Vs Backward reasoning ; and (ii) Matching.
(B) Describe Expert system tools with important features and usage of MYCIN and DENDRAL.

(5 × 20 = 100 marks)

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