



CBCS SCHEME

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15MT832

Eighth Semester B.E. Degree Examination, Aug./Sept.2020

Artificial Intelligence

Time: 3 hrs.

Max. Marks: 80

- Note: i) For Regular Students: Answer any FIVE full questions irrespective of modules.
ii) For Arrear Students : Answer any FIVE full questions, choosing ONE full question from each module.*

Module-1

- 1 a. Define Artificial Intelligence. Write scope of Artificial Intelligence. (06 Marks)
b. Explain Artificial Intelligence and related fields. (10 Marks)
- 2 Explain
a. Artificial Intelligence Technique (08 Marks)
b. Alan Turing Machine (08 Marks)

Module-2

- 3 Write the following search algorithm:
(i) Breadth first search algorithm (ii) Depth first search algorithm. (16 Marks)
- 4 Explain Hill climbing Algorithm in detail. (16 Marks)

Module-3

- 5 a. What is meant by Expert System? (04 Marks)
b. Explain Expert System Architecture. (12 Marks)
- 6 Write the following :
a. MYCIN
b. DENDRAL
c. Network Structure
d. Application of Neural Nets. (16 Marks)

Module-4

- 7 a. Write Non Production System Architecture. (08 Marks)
b. Explain Rule Based System Architecture (08 Marks)
- 8 a. Write Blackboard System Architecture. (08 Marks)
b. Explain Neural Network Architecture. (08 Marks)

Module-5

- 9 a. Explain perceptron concept in Artificial Intelligence. (10 Marks)
b. Explain Checkers Players example. (06 Marks)
- 10 Explain the following :
(i) Genetic Algorithm (08 Marks)
(ii) Intelligent editors (08 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.