

BOARD DIPLOMA EXAMINATION

MID-I
ARTIFICIAL INTELLIGENCE

For Final Year Computer Science

Time : 1 : 00 Hour

Max. Marks : 20

PART-A

4 × 1 = 4

Note : Answer *all* questions and each question carries *One* marks.

1. Define Artificial Intelligence.
2. List the Applications of Artificial Intelligence.
3. List the semantics of predicate logic.
4. Define First order logic.

PART-B

2 × 3 = 6

Note : Answer any *Two* questions and each question carries *Three* marks.

5. (a) State brief history of Artificial Intelligence.
(or)
(b) Differentiate BFS and DFS.
6. (a) State about PSAT problem.
(or)
(b) State about horn clauses

PART-C

2 × 5 = 10

Note : Answer *Two* questions and each question carries *Five* marks.

7. (a) Explain about state space graph.
(or)
(b) Explain about feature based state spaces.
8. (a) Explain semantics in propositional logic.
(or)
(b) Explain about forward chaining algorithm.