

CDOE
MASTER OF COMPUTER APPLICATIONS (CBCS-2019 COURSE)
M.C.A. SEM - III : WINTER :- 2021
SUBJECT: ARTIFICIAL INTELLIGENCE

Day : Monday
Date 14-02-2022

W-22222-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 60

N.B.

- 1) Attempt any **TWO** questions from Section – I. Each questions carry **12** marks.
- 2) Attempt any **TWO** questions from Section – II. Each questions carry **12** marks.
- 3) **Q. No. 4 is COMPULSORY**
- 4) Figures to the right indicate **FULL** marks.
- 5) Answers to both sections should be written in **SAME** answer book.

SECTION – I

- Q.1** a) Elaborate the approaches for solving problems of Artificial Intelligence with examples. (06)
- b) Explain simple hill climbing technique. (06)
- Q.2** a) Describe Dumpster – shafer theory. (06)
- b) Explain semantic net with example. (06)
- Q.3** a) Explain one of the component of planning. (06)
- b) Explain neural network architecture. (06)
- Q.4** Write short notes on any **THREE** of the following (12)
- a) Forward Reasoning.
- b) Backward Reasoning.
- c) Predicate logic.
- d) Propositional logic.
- e) Expert task.

SECTION - II

- Q.5** a) Describe different manipulation function used in PROLOG. (06)
- b) Explain search technique to solve 8 – puzzle problem. (06)
- Q.6** a) Construct semantic net representation of your choice. (06)
- b) Explain conceptual dependency with example. (06)
- Q.7** a) Apply Depth first iterative deepening to water – jug – problem. (06)
- b) Describe MINMAX procedure in game playing. (06)

* * *