

CDOE
MASTER OF COMPUTER APPLICATIONS (CBCS-2018 COURSE)
M.C.A. Sem - III : WINTER :- 2021
SUBJECT: ARTIFICIAL INTELLIGENCE

Day : Monday
Date 14-02-2022

W-19188-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 70

N.B.

- 1) Attempt any **FOUR** questions from Section – I and any **TWO** from Section – II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both sections should be written in **SAME** answer book.

SECTION - I

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|------------|---|-------------|
| Q.1 | Explain Artificial Intelligence problems with example. | (10) |
| Q.2 | Explain production system characteristics. | (10) |
| Q.3 | What are different knowledge representation approaches? | (10) |
| Q.4 | Explain resolution concept with example. | (10) |
| Q.5 | Explain Alpha – Beta cut off in game playing. | (10) |
| Q.6 | Write short notes on any TWO of the following: | (10) |
| | a) Forward reasoning | |
| | b) Goal stack planning. | |
| | c) Format task. | |

SECTION - II

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|------------|--|-------------|
| Q.7 | a) Explain water – jug problem using breadth first technique. | (07) |
| | b) Explain salesman travelling problem with proper search technique. | (08) |
| Q.8 | a) What are Lists? How do you use list in PROLOG. | (07) |
| | b) Explain recursion in PROLOG. | (08) |
| Q.9 | a) Explain different steps in natural language processing. | (07) |
| | b) Explain the procedure MINIMAX search in game playing. | (08) |

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