Roll 1	No.	:	
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Total No. of Questions: 11

[ Total No. of Printed Pages : 3

## **BFMS-450**

## M.Sc. (Final) Examination, 2023 COMPUTER SCIENCE

Paper - MCS-205 (B)

(Artificial Intelligence)

Time: 3 Hours [ Maximum Marks: 50

Section-A (Marks :  $2 \times 10 = 20$ )

Note: Answer all ten questions (Answer limit 50 words). Each question carries2 marks.

Section-B (Marks:  $3 \times 5 = 15$ )

Note: Answer all five questions. Each question has internal choice (Answer limit200 words). Each question carries 3 marks.

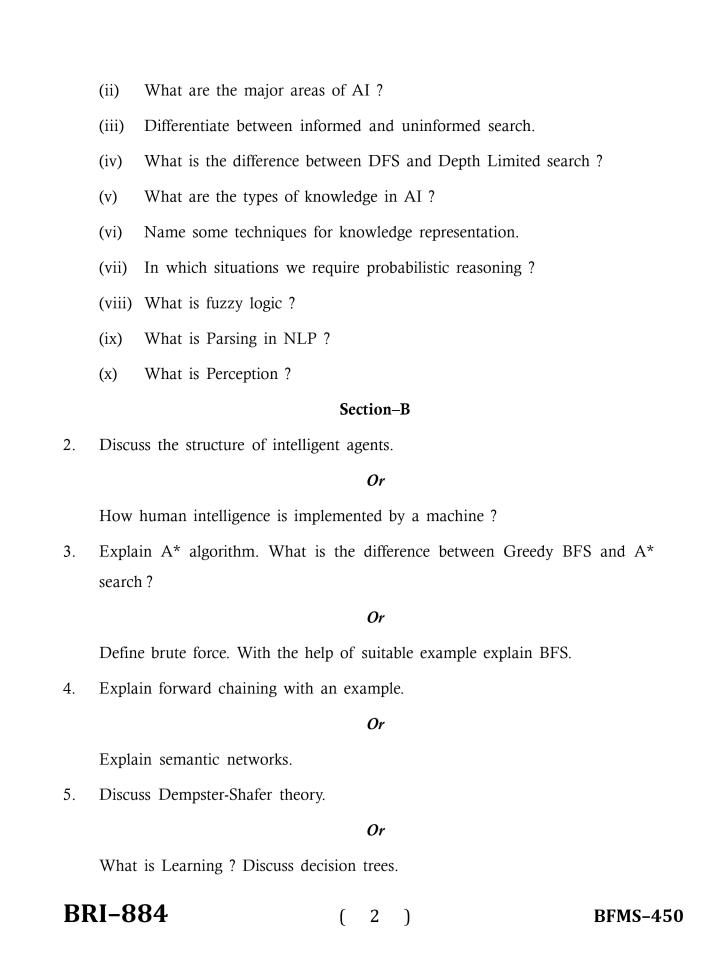
Section–C (Marks:  $5 \times 3 = 15$ )

**Note**:— Answer any *three* questions out of five (Answer limit **500** words). Each question carries **5** marks.

Section-A

1. (i) Define AI.

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6. Explain reinforcement learning.

Or

What is an Expert System? Discuss its components.

## Section-C

- 7. Discuss water jug problem as a state space search.
- 8. Describe AO\* algorithm. How is it different from A\* algorithm?
- 9. Differentiate between procedural and predicate logic. Explain resolution with suitable example.
- 10. Define CF model. How Baysian Network overcome the limitations of CF model? Discuss Baysian Network in detail.
- 11. Explain NLP.