BOARD DIPLOMA EXAMINATION

SEMISETER END EXAMINATION (MODEL PAPER) ARTIFICAL INTELLIGENCE

For Final Year Computer Science

Time: 2:00 Hours

Max. Marks: 40

PART-A

 $8 \times 1 = 8$

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

- 1. State the need for Artificial Intelligence.
- 2. State D-Separation.
- 3. Define natural language.
- 4. Define learning.
- 5. Define parsing.
- 6. State discourse understanding.
- 7. State major design issues in speech recognition systems.
- 8. State AI role in robotics.

PART-B

 $4 \times 3 = 12$

Note: Answer all questions and each question carries Three marks.

- 9. (a) List the semantics in probabilistic logic.
 - (or)
 - (b) List the advantages of natural language process.
- 10. (a) List the types of inference in Bayes network.
 - (or)
 - (b) Explain AI role in robotics.
- 11. (a) Explain about transition network.
 - (or)
 - (b) State ambiguity and disambiguation.
- 12. (a) Explain AI role in flying with drones.
 - (or)
 - (b) Explain AI role in observing universe.

6.16

1.

2.

3.

4

5

Note: Answer all questions and each question carries Five marks.

13. (a) Explain about forward chaining algorithm.

(or

- (b) Explain about morphological analysis.
- 14. (a) Explain about generating plans.

(or)

- (b) Explain AI role in developing the neural networks.
- 15. (a) Explain parsing a sentence with an example.

(or)

- (b) Explain different forms of ambiguity in detail.
- 16. (a) Explain AI role in the medical field.
 - (b) Explain AI role in the military applications.