



- Notes :
1. All question are compulsory and carry equal marks.
 2. Draw neat and labelled diagram and use supporting data wherever necessary.
 3. Avoid vague answer and write specific points/answer related to questions.

1. Either:-

- a) What do you mean by AI? Explain pattern Recognition. **8**
- b) What is problems and problems spaces in AI. **8**

OR

- c) What is Tic-Tact-Toe in AI. Explain it. **8**
- d) Discuss water Jug problem with example. **8**

2. Either:-

- a) Write and explain Depth first algorithm. **8**
- b) What is Means-End Analysis in AI? Explain. **8**

OR

- c) Explain Best-First search algorithm. **8**
- d) Write and explain Hill climbing algorithm. **8**

3. Either:-

- a) What is Resolution? Explain Resolution in predicate logic with one example. **8**
- b) What is prepositional and predicative logic? Explain. **8**

OR

- c) Explain Unification Algorithm. **8**
- d) Explain Representation of simple facts in logic. **8**

4. Either:-

- a) Explain the concept of Natural language understanding. **8**
- b) What do you mean by matching translation? Explain. **8**

OR

- c) What is Translation? Explain in detail. **8**
- d) Explain finding the Right structure in detail. **8**

5. Solved all questions.

- a) What is Heuristic. Search? Explain. **4**
- b) What is Production system? Explain. **4**
- c) Give the basic principle of Resolution. **4**
- d) Explain Declarative Representation in detail. **4**
