



**PART - B (5 × 16 = 80 Marks)**

11. (a) Explain uninformed search strategies with suitable example.

**OR**

- (b) Outline the components and functions of any one of the basic kinds of agent programs.

12. (a) Explain the forward chaining and backward chaining algorithm with an example.

**OR**

- (b) Outline the main steps of the knowledge engineering process for creating a knowledge base in FOL.

13. (a) Explain the concept of planning with state space search using example.

**OR**

- (b) Discuss the use of planning graph in providing better heuristic estimate with suitable example.

14. (a) Explain the method of handling approximate inference in Bayesian networks.

**OR**

- (b) State the role of Hidden Markov models in speech recognition.

15. (a) How does decision tree supports for learning ? Explain with suitable example.

**OR**

- (b) Write short notes on : (1) Statistical learning (2) Explanation based learning.