

- a) labeled data
c) labeled knowledgebase
- b) unlabeled data
d) unlabeled knowledgebase
- (x) Pattern recognition system is done by
a) Expert Systems
c) Neural Networks
- b) Natural Language Processing
d) Robotics
- (xi) The heuristic function is
a) $f=h$
c) $f>g$
- b) $f=h+g$
d) $f<g$
- (xii) Limitation of propositional logic can be removed by
a) Pre-Propositional Logic
c) First-Order-Predicate Logic
- b) Boolean Logic
d) None of these
- (xiii) Only Competitive and Cooperative Environment
a) Two-valued logic
c) Many-valued logic
- b) Crisp set logic
d) Binary set logic
- (xiv) What is Artificial intelligence?
a) Putting your intelligence into Computer
c) Making a Machine intelligent
- b) Programming with your own intelligence
d) Playing a Game
- (xv) What is the rule of simple reflex agent?
a) Simple-action
c) Both a & b
- b) Condition-action rule
d) None of the mentioned

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Explain DFS with iterative deepening in AI. (3)
3. Explain with some example about different types of production system? (3)
4. Write and explain the characteristics of AI Problem (3)
5. Differentiate DFS and BFS with an example (3)
6. Justify the fundamental goal of Knowledge Representation in AI (3)

OR

"The goal of AI is to enable the machine to think without any human intervention."-Justify statement with your own view. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. What is Goal based agent? Create an example. (5)
8. Define the advantages of an expert system. (5)
9. Explain Dempster-Shafer theory of uncertainty management. (5)
10. Construct the relationship between machine learning and artificial intelligence? (5)
11. Illustrate Simulated Annealing with the help of an example. (5)
12. Explain knowledge based system in the context of artificial intelligence? (5)

OR

Â Explain depth first search with an example and compare with Depth Limited Search. (5)
