AIDS1- PT2 Question Bank

TE I.T.Sem 6 (Jan-May 2024)

1. Illustrate with diagram how goal based agent works.
2. What is learning agent? Explain with diagram.
3. Describe PEAS and also write down the PEAS representations for
   a. Medical diagnosis system.
   b. Automated Taxi Driver
4. Compare different search techniques based on their time complexity, space complexity, completeness and optimality.
5. What are heuristic functions? Where are they used? Give heuristic functions for 8 puzzle problem.
6. What is Unification? Give example.
7. What is Skolemization? Explain Skolem constant and Skolem function.
8. Explain uniform cost search and best first search in detail with examples and compare.
9. What is Bidirectional Search? Comment about completeness, optimality, time and space complexity.
10. Write note on Hill climbing. Explain applications of it.
11. Differentiate between forward and backward chaining.
12. Can 1 litre water be measured using 10 litre and 4 litre jug? Justify.
13. Numericals on Resolution by refutation in First order Logic.
14. Conversion of given statements to First order logic.
15. State A* algorithm and prove that it is admissible.
16. Numerical on water-jug and crypto-arithmetic problems.
17. Numericals on min max search and alpha-beta pruning.

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