

3 Hours

Note:

- (i) Each question carries 20 marks
- (ii) Question 1 is compulsory
- (iii) Attempt any three (3) from the remaining questions
- (iv) Assume suitable data wherever required

Q1. Attempt any four (4) questions from the following:

[20]

- (a) Give PEAS description for an Autonomous Mars Rover. Characterize its environment.
- (b) Give the initial state, goal test, successor function, and cost function for the following problem
"You have to colour a planar map using only 4 colours, in such a way that no two adjacent regions have the same colour".
- (c) Draw and explain architecture of Expert System.
- (d) Explain Hill-climbing algorithm with an example.
- (e) Convert the following propositional logic statement into CNF
(i) $A \rightarrow (B \leftrightarrow C)$

Q2. (a). Explain decision tree learning with an example.

[10]

(b) Write first order logic statements for following statements:

[10]

- (i) Horses, cows, and pigs are mammals.
- (ii) Bluebird is a horse.
- (iii) Whoever can read is literate.
- (iv) Every tree in which any aquatic bird sleeps is beside some lake.
- (v) Anything anyone eats and is not killed by is food.

Q3. (a) Design a planning agent for a Blocks World problem. Assume suitable initial state and final state for the problem.

[10]

(b) Consider a situation in which we want to reason about the relationship between smoking and lung cancer. Intuitively, we know that whether or not a person has cancer is directly influenced by whether she is exposed to second-hand smoke and whether she smokes. Both of these things are affected by whether her parents smoke. Cancer reduces a person's life expectancy.

- (i) Draw the Bayesian network.
- (ii) How many independent values are required to specify all the conditional probability tables (CPTs) for your network?

[10]

Q4. (a) Compare Greedy Best first search and A* search algorithms based on performance measure with justification: Complete, Optimal, Time and Space complexity.

[10]

(b) Write a pseudocode for alpha-beta algorithm. Apply alpha-beta pruning on example given in Figure 1 considering first node as max.

[4+6]

01, 02, 04, 05, 06, 07, 08,
11, 12, 13, 14, 15, 16
19, 20, 21, 22, 23

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H Kauffman



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