Paper / Subject Code: 89284 / Artificial Intelligence

T.E. SEM VI / C SCHEM/ COMP / MAY 2024 / 27.05.2024

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| Note | ii) (ii) iii) | Attempt any three from remaining Assume necessary data | |
| 1 | (a) | Explain the Learning Agent with suitable block diagram. | 5 |
| | (b) | Give difference between Informed Search and Uninformed search Algorithms. | 5 |
| | (c) | Give PEAS and state space description for "Automobile Driver Agent" | 5 |
| | (d) | Explain different quantifiers with example. | 5 |
| 2 | (a) | Explain various properties of task environment with suitable examples | 10 |
| | (b) | What is Game Playing Algorithm? Draw a game tree for Tic-Tac-Toe problem. | 10 |
| 3,00 | (a) | Illustrate forward-chaining and backward-chaining algorithm with suitable example. | 10 |
| | (b) | Explain Hill Climbing Algorithm and problems that occurs in hill climbing algorithm? | 10 |
| 45 | (a) | What do you mean by Resolution? Also discuss the steps in Resolution. | 10 |
| | (b) | Consider problem of changing a flat tire. The goal is to have a good spare tire properly mounted on to the car's axle, where the initial state has a flat tire on the axle and a good spare tire in the trunk. Give the ADL description for the problem and also discuss the solution | 10 |
| 5 | (a) | Explain Partial-order planning with suitable example. | 10 |
| | (b) | Define Belief Network. Describe the steps of constructing belief network with an example. | 10 |
| 6 | | Write short notes on any Two of following: | |
| | (a) | Explain different applications of AI in Healthcare, Retail and Banking. | 10 |
| n | (b) (c) | Alpha Beta Pruning Wumpus world Environment Keeda.com | 10 10 |

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