

(Revised Course)

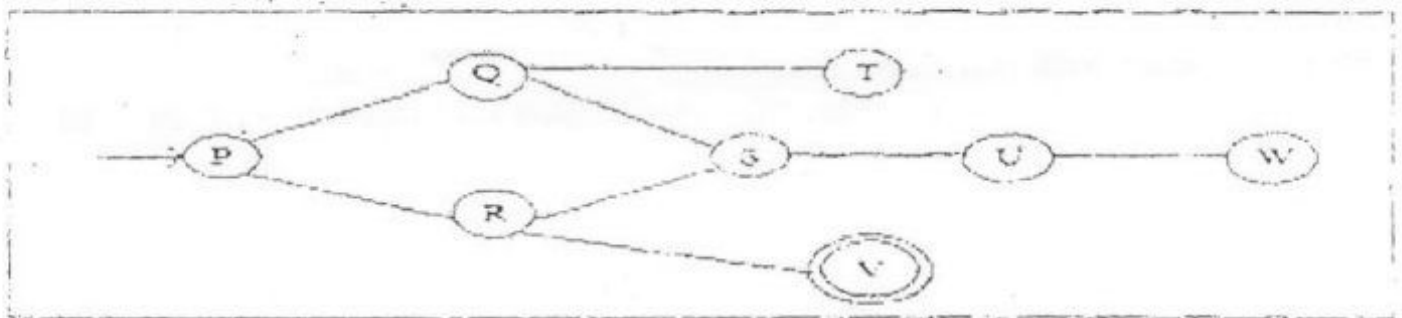
(3 Hours)

[Total Marks : 80

- N.B. : (1) Question No. 1 is compulsory.
 (2) Attempt any Three of the remaining Five questions.

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1. (a) What is AI? List down all components of AI. 3
 (b) List down all properties of Agent Task Environment explain in short any one. 3
 (d) What do you mean by heuristic function? Why it is use? 3
 (e) What is Expert system shell explain in short. 3
 (f) What is Reasoning? Write its role in AI in Short. 3
 (h) Give the Comparative analysis of Uninformed Search techniques. 5
2. (a) Consider the following graph starting from P execute DFS, the goal node is V. Show the order in which the nodes are expanded. Assume that the alphabetically smaller node is expanded first to break ties and also write the properties of DFS. 10



- (b) List down all the types of agent architecture. Explain utility based and learning agent. 10
3. (a) Suppose you are designing a machine to pass the Turing test. What are the capabilities such machine must have? Explain? 5
 (b) Represent following sentences in first order logic. 10
 (i) Every gardener like the sun.
 (ii) All purple mushrooms are poisonous.
 (iii) Every student who takes French passes it.
 (iv) No person buys an expensive policy.
 (c) Write the Planning algorithm for Spare Tyre Problem. 5

[TURN OVER

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