

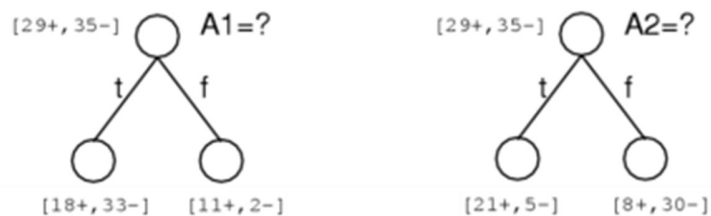
International Islamic University Islamabad

Final Exam: Artificial Intelligence
Instructor : Dr. Syed Musharaf Ali
Course code : CS 451

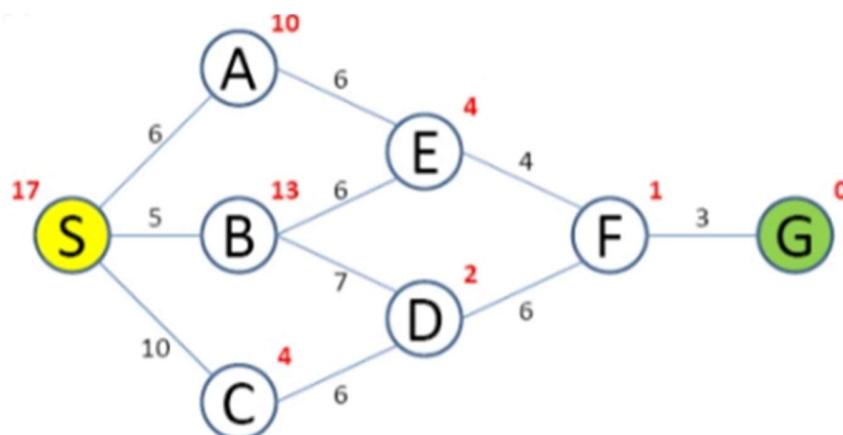
25th, June 2021
Total Marks = 60

Attempt all the questions. Each question carries 20 marks

Q # 1. Find the information gain of the following attributes A1 and A2.



Q# 2. Find the shortest path from node S to G by using A* search algorithm. H values are mentioned in Red color.



Q# 3. For the given graph find the R matrix and Q matrix by using Q learning algorithm.

For Q matrix find the values of the indexes $Q(C, D)$, $Q(A, E)$, and $Q(D, E)$

