

**CS344**

**Introduction to AI**

**Quiz-1**

**17/1/11**

**10+ 10 marks**

Question 1:

For the Missionaries and Cannibal problem give

(a) Two heuristics

(b) Argue clearly if they are or are not admissible [i.e.,  $h \leq h^*$ ]

(c) Argue clearly if they are or are not monotonic [i.e.,  $h(\text{parent}) \leq \text{cost}([\text{parent}, \text{child}] + h(\text{child}))$ ]

Question 2:

Argue why it is necessary to examine the redirection of parent pointers of children and grandchildren of a node on the closed list whose parent pointer was changed. Give an example.

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