181105016   Batch A
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Page No.:
Date:
M T W T F S S
YOUVA

AI Tutorial -2

	Does the task req. human interaction	Is the problem decomposable	Can soln. steps be ignored or undone	Is the problem universe predictable	Is a good soln. absolute or relative	Is the soln. a state or path	What is the role of knowledge
• Watering	~~No~~ Yes	~~Yes~~ No	Yes	~~Absolute~~ Yes	~~Both~~ Absolute Path	~~to~~ Path	Yes
• 8 puzzle	No	No	Yes	Yes	Absolute	Path	Yes
• Missionary & Cannibal	Yes	No	Yes	No	Absolute	Path	Yes
• Chess	No	No	No	No	Absolute	Path	Yes.

2. a)   Missionary & Cannibal
   Counting the no. of times we have to cross the river
   — 2 can cross the river but 1 has to come back with boat.
   — Except for last person.
   $\therefore \quad u(x) = (\text{Total no. of ppl. on left}) - 1$

b)   8 - Queen
   For each queen found, the no. of conflicting queens along its rows, column or diagonal. For each conflicting queen found, we have a pair of conflicting queen
   $\therefore \quad u(x) = $ Total no. of queens that are attacking each other ~~attack~~
   The total no. of conflicts increases, the better.