Answer to question 2
10) Node E will be explored fired.
The second of th
b) The queue will look the type 12
c) Node y will be explored sext.
the star denites - 10H
b) the quent will look like
OF = (N)NA sitaismon met sit & .F.
Min Y AN X B = 2 Con D
over estimation.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
) Node y will be coplored first.
4 704
= 10 (m, r) N (a) N S = (*n) N , A = * 100 H

2.0) A henristie h(n) is admissible it always under estimates the astuck costed to harthy gold. When I show (Here, optimal path cost for A sofford is

7. So, the houristic an(n) < 7. It cont by more than of the as lit will be over estimation. of My A NON (3 For tensistancy Huz, n* = A, h(n*) = 2, h(n,n) \$ = 5 h(n) < 上*(n, x*)+h(n*)

De satisfied, For SMY = For the Formal Son h(n) - h(n*) = Di-50/50 3 50 That's now consistancy is maintained. sty norther

that each mode is admissible search is effectent and fast. A consistent heroistic is always admissible And, a admissible houristic is necessary for optimality. That's how the condition ensures optimality. That's how the condition

Question; 2 1000 Itani Mitus Lord Binary serveding more 2009 0 > Absort in the population presents in titue 6/population or INT robosofg : Folgein Boundaorine Disposes : sofontoA steps palrot room loing syste 150hold 1000 0 0 09

Thuser

2. The gidness Junction are consider me profit, cl = A+ PT b= 10+ 3+ 10 = 2/30/01 CZ = E+F+6 7 6+18+10 = 39 C3 = A + C+E+F=10+15+6+18-49 CA = D+E = 7+6 = 13 -1016 to M. A + ez and es on selected ous they can fithest. Their weight, cz = 1+4+8 = 13 11011011 = 11031= 12+5/+1+4392 - They are also less than 15. : Flows - Ated Etc 50, they are soleted.

(cod)

3. Crossover, point = 3 conting out is e2 = [0]0]0]0]0]1]1] = [0]0]0]0]0]1]0] c3 = [1]0[1]0[1]1]0 = [1]0]1]0]1]1] + CAE+FE10+15+6+18-99 A. Mutotion, E1 = d+F = = 7+0 = PD 051 = [0]0]0]0]1, [0]0]0]1, [0]0]0]1, [0] D: Fibruss = B+E+F = 5+1+18=29 Their wight ez= 1+9+8=13 052 = [1/0/1/0 | 1/0/1 = [1/0/1/0] 1/0/1 i They are also show I see I have I so : Fitners = At QA Eth = 10+15+6+10=41

3.1) BPS:

770 (Ti

[5°] 5° [A 6 B2 67 7 7 7 7 7 8 A (B - C D 20 20 79) A Bz { c, D3 12 2 D4 Eg3 0 C, [D, C, bd E& Ed +2 0] DOLLES EX EX ES & ESS = Poth 5-) A=> h, cost = 26

ii) DFS (503) S° [A' B' C'] 3 A' {p' a' B' c'} D? { F? L2 6 B c'} 9] 58 {Q=FFJECLO LZ BJ C'S 8 9 dy & 2 2 b B c' } 50 50 CCE OF PROPERTY.

109

iii) hels: coen prilang beling on ? HESSE Juno colosof peter min 30 Colonis of motonts & for Bits & Studion in pully somes field stocke Esize myen pring sombo volumble Lipy + Edy 4051 Edy apriling about about the Birth of the Bong spele offo solved Ezyz @ whope & lifes of some principle. I wow the control the Some to The Marker of make 62 { } (-3(-)(-) 2-0(-1) cost = = 9

		reit zons	1.1	
	Performances measure in Reliability.	cost, Cos	skeleney,	
Environmentigosideritidem, austioneer, room.				
	Actuator: Speaker, mircophone de chrot: Camera prince monitoring	isplay.	projedur.	
	Sound décedor system.	system	7,	
)		53	

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5. Sa Simulated Anceding uses the III andogy of how metal cools and forezes in a minimum, energy siduation. To build something from metal when the temperature Tis A high tites showed again and again to F & boing sinter a good shape. with gooding town the changes also decrease. Simulated anieling follows the some principle. I when the control parameter T is high it makes more and more bad moves. with I bad mores also decreases, with T fends

Al De zero, sit becomes like hill dimbing. We know, e T > rand (v.i). The higher the In high temperature bad moves will happen mon often. Becaun in et wa larger T mW. give of smaller value reause it's and $\Delta E = neg dive$ in the demonination so, it's less likely that it mill gives as which value greater Agen, in low temperature et will give lange values, soit ma and AE is my while. So, the computed value will be smaller. The smaller It is, the lesser bad

be less bad moves. It s word so