PAGE No. DATE Assignment JA Mame: Devang P Shinde Class - B.E RO11 Mo = 61 Subject : AI Dop Doc Marks Sign

## Assignment JA

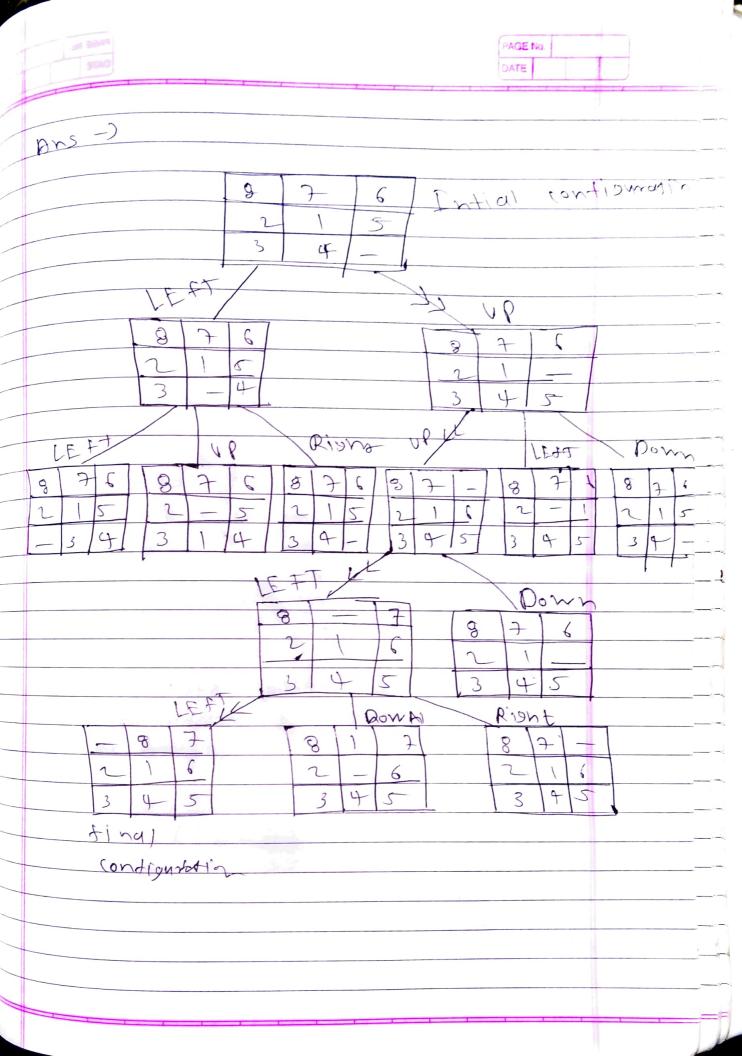
PAGE No.

1	
$\left( \cdot \right)$	consider tollowing interface of 8
-4	pyztle proflems.
_	
	8 7 6
-	2 1 5
_	876 - 87 215 216 34- 345.
	3 4 5
	Intial
-	Intial
	consider Herate tunctions defined below-
	11 traisaloured below-
	ht maisplaced files count except space
	he correctly placed tiles count except cours
	h3: tyn or manhater distance between current
	change of starter of starter between current
	and corossed position of all times except
	space
	And a second of the second of
-\	Anover the following questions:
9	to puzzle problem we are concerned win
	detting to goal configuration within beaut
	Sal Corrigaration wishin story
	humber or system. All moves are mu
	Equally 4tilly Define 9(h) in your
	ovo word wrat will be me last of
	6 Strps Solution to some autolitory 8 puzzle
_	Instance?
	The lowest pum count s(n) can be me
-	Cost to reach the goal Contiguration
4	$\sqrt{1}$
	in tearns steps.
	In our case we can reach the tinal
-	contignation in al east moves : UP. UP. LETT.
	LAST TO TOWN THE TOWN TO TOWN THE TOWN
di allus	LEST singe all me moves are charly

costly inc combate 9(n) qs 9(n) = 1+1+1+1 a(n) = n consider me following antitally a

puzzle instance which since solution in 6 steps The solution can be seprated as:

\[ \lambda \ta \ta, 76\rangle \frac{1}{2} \f 22 = 18173, 22, 1163, 8314,535 Since all the move are equally costly the cost would be 1) Draw Exhabite State space free of depth limited to a for Instance or 8 puztle position in me questions



	PAGE No.  DATE
(E)	compute him), where 12/12/3 and
	N= Intial State, final Jour State
	from questions.
-)	
	for 1=1 , n= inatial State
	halindial)= This place tiles count
	EXPLE EXECUPTA SPULE
	hy (intial)=n.
	h = god sighte
	MI (9001)= 0
	fm 1-2, 2 = intall state
	he (intial) - correctly place & file coun
	except space
	hu (intial)=n
	for n= goal state
	he (90al) = 8.
	for 1=3, w=intial state
	h3 (Intial) = Jum or monhaton distance between
	current and comma position or all time
	except space.
	h3 (intial) = 0 +0 +0 +0 +1 +1 +1+1
	= 4
	for n = 2001 State
	h3 (90al) = 0.