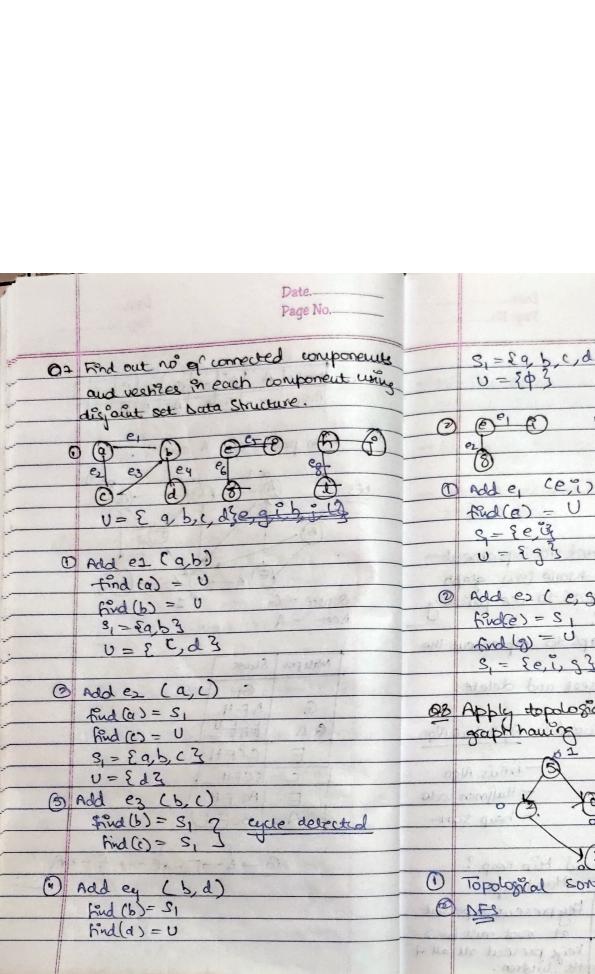
		Page No.
	Twostal-5	
		at the transport of the
61	What is the difference HW DFS and BFS.	
	Applications of &	#h Algo .
	BFS	BF3
-	Stands for Breadth	OFS Steuds for Depth first
	first search.	Starch.
	BFS is more suitable	OFS is more suitable for
1000	for seasching verhices	searching restres away
	which are closes to	from source.
i was	Soulce.	puderable and custo
-	BFS considers all	DES use make a descision,
	neighbours-first, so not	then explore all the paths
	suitable for desusion	through this descision, if
	making kees in games/	designer = win, top, therefore
dem	puzzles:	suitable in games/puzzles.
	Siblings are visited	duidren are visited before
1	bejoe children.	Silling.
->	implemented using	Implemented using UFO
94	FIFO liet.	List.
	Requires more m/m	12 19 To po 00 1
Lear	as compared to NFS.	Requires less m/m.
-	No Backhacking	need of Backracking
Calan	required.	ill dipop sande
->	slower than AFS.	Faster than 8FS
-7	OCV+E)	D(V+E)
1000	V= Vertices E= Edges	N'agric Leveling !
	risital according to river level.	visited according to
	ree tevel.	tree depths.

Date.___ Page No ._ Application of BFS-04 How can you d - Pecito Peer Networks - web crawles - Notrook Brandrashing AFS to a conne There is acycle a back eage pre Application of NFS-- Detecting cycle in graph Ly An edge itself (- Topological sost - solving puzzles with only one solution in the t 02 which bataskucture is used to implement BFS: For every and why? visited and vis BFS - queue DFS - Stack there is a cycle? of any vertex is 03 What do you mean by sparse and dense cycle. graphs? which represent whom of graph is 05 What do you better for sporse and dense graphs? Expain three of examples which Dense graph is a graph in which the no of edges is dose to the maximal no disposed sets. of edges. Adjarrency matrix is preferred Also known as u merge find dat sparse graph is a graph in which no of track of set of e edges is done to the minimal no op a number of di edges Adjacency list is required. Asjout set can be

Date._ Page No ._ there is no common element by the two sets. Node A B operations -! Palu 1 Making new sets The MakeSet operation adds a new element The element is placed into a new set * No path b/a containing only new element and new set is added to ds. @ Finding the sepresentative of set containing a new given element can be impremented by recipiely traversing pasent away und use hit a Source - Gi Dest - A node who is pasent to Heelf... " Find" Stack Mode proc 3 Union - It takes too elements a input G G DFH and finds the representatives using "find" 0 0 operation and puts eather one of the trees CCF+ under the most node of other free, ECFH menging the trees and sets. C ACFF ×2 BCF 06 BES



Date.___ Page No .__ Node Stack 5 - Hin Key element is 20 present at the noot 30 2 10 - According priority 1 0 - smallest element 5-12-3-1 popped first. 69. Heap as can be used to implement -> Get Maximum Element Extract Maximum as priority grews? Name tew graph also where you need to use priority insert. queue and way? Yes, we can use heaps to implement the prilonity queue. Ochom) to insert and delete. Priority queue is used in Wirkstrais Alon - Privis Algo - Huffman wode - heap sort Old with between Mair and Min Keep? Men Heap Man Heap In Min Heap, Key & Key present is present present at the root at root must be >= node, and it must node, and it must keys present all of be < = an keys present its children.