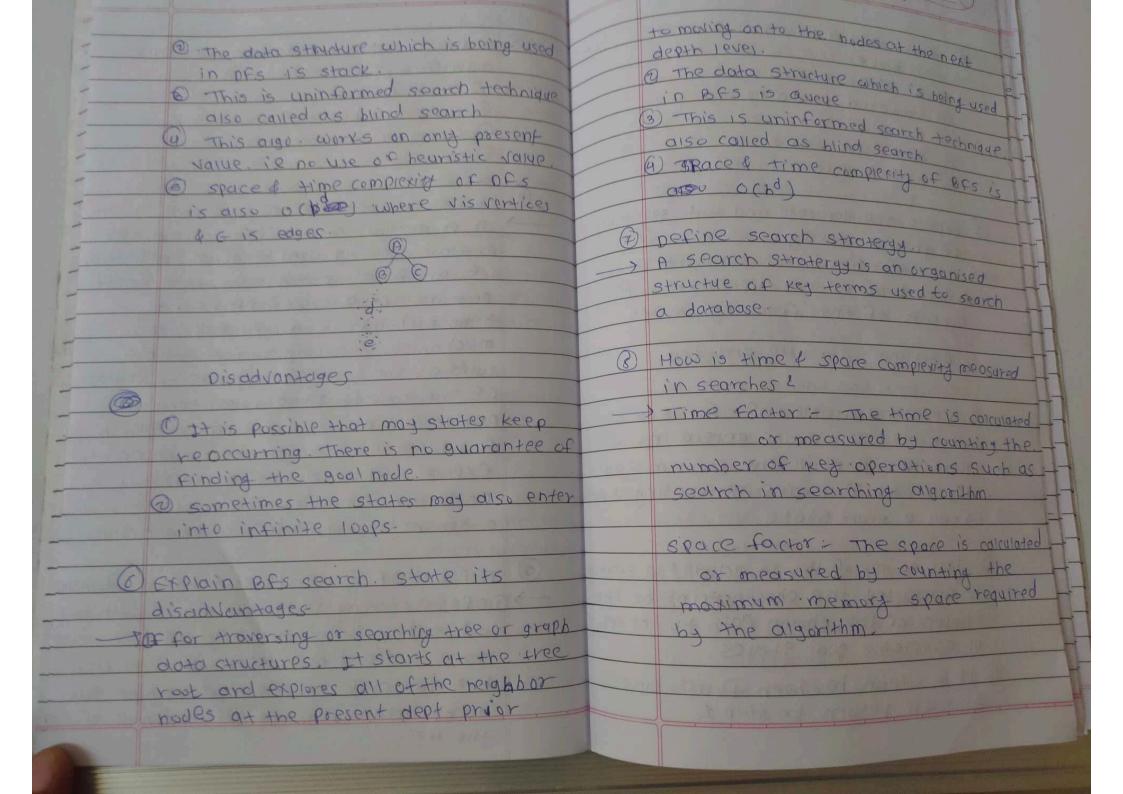
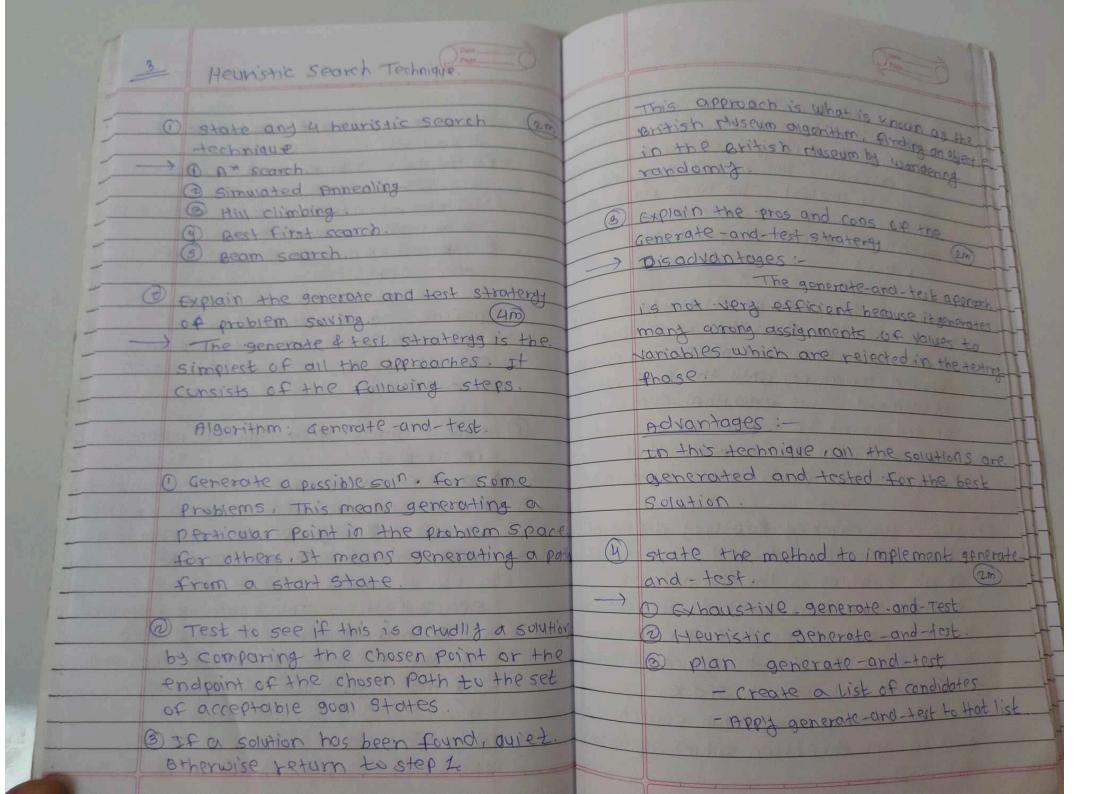


(Page Page	0,2
(a) piffers from the data can be used	D pifference between informed and uninformed sparch
Data: Data :- Data are the raw alphanumeric	Informed uninformed
values obtained through different	The searching process searching process
simplest form consist of raw alphan- umeric values.	more quickit. compared to informed small
Knowledge is what we know. Knowledge is unique to each individual	B) It provides the direction no suggestion is given regarding the solution regarding the son in it
and is the accumulation of Past experience and insight that shapes the lens by which we interpret, and assign meaning	It is less length while It is more length, while implementation implementation
to, information.	(3) Greedy search, Ax. Depth first search
State any 2 AI technique. —) search	search, graph seam Breadth first search.
Abstraction.	@ state the 4 components using which a
B) what is Turing test.	Problem can be well formulated formally D Initial Statate
The second contract to	@ Action & transition
	(9) goal state. (5) Path Costing.

	Other Control	
growth pirst sparch F		State the measure that evaluate on a capacity O capacity O capacity
BFS uses queue data DFS Structure for finding str the shortest Path optimal solution BFS is more suitable DFS for searching Vertices whe which are closer to awa the given source.	optimal solution. Is more suitable on these are solution	white a short note on production sistem A production system to is a computer of artificial intelligence which consist primarily of a set of rules about behavious but it also includes the mechanism necessary to follow those
The Time complexity The of BFs is of of ONTE) OCNTED ONTE	e time complexity OFS is also (Y+E) angorithm is a recuracy angorithm that uses	rules as the system responds to states OF the coord those rules termed productions, are a basic tepresentation found Useful in automated planning, expert systems & action spiection production consist of two parts a sensort precondition and an action.
trucking. the	idea of backtracking	Explain DFS search istate the disadvantage of the graph a, and then travel to deeper and deeper until we find
BOOK Page		the goal node or the node which has no children by visiting different node of the tree.



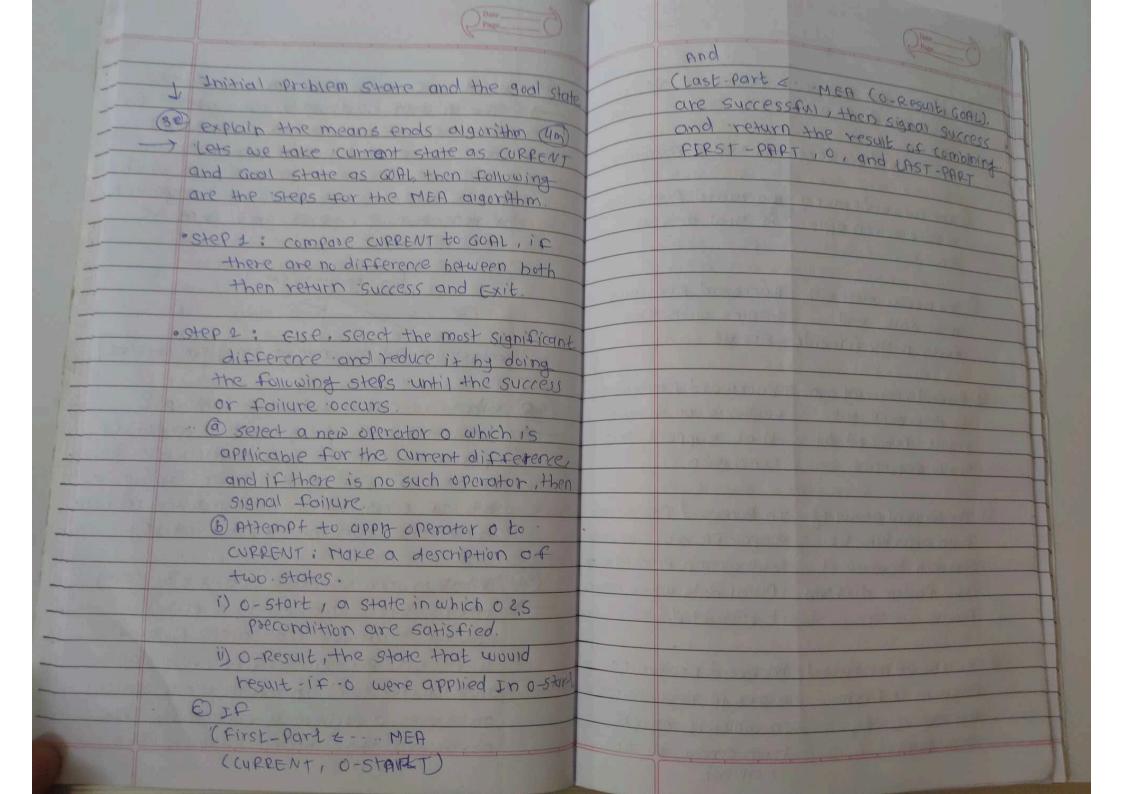


abbolute and Relative (6) What is the Bhitish Museum. Absolute = finding best path

Relative = finding and path The British Huseum algorithm is general approach to finding a solution by cheak all possibilities one by one begining with the smallest. The term recers to 1 stepest Ascent Hill climbing a conceptual, not a practical, technique The stepest Ascent Algerithm is a where the number of possibilities is poriotion of the simple bill-climbing algorithm. This algorithm examineral epormons. the neighbouring nides of the current (6) what is hill climbing straterty & Em state and spirets one neighbours and > A hill climbing agorithm is a local which ich is closest to the goal state search agonithm that moves continionsy This algorithm consumes more time as upward (increasing) until the best solution it searches for multiple neighbours is oftained, this algorithm comes to an end whent the peak is reached (23) Discuss any three search methods used This agarithm has a mode that to povigate through the search comprises two parts: state and value tree - explain Advantages & discoverages of these method. (7) How is Hill climbing stratery different @ Dept First Search. (OFS) from Generate - & -test stratery @ Breadth first search (BFS) > @ Hill climbing is the variant of. 3 pos & uniform cost search senerate and Test method. The generate and test method produce fredback What is best first search & explain how. (24) which hops to decide which direction It is implemented in A+ and Ao* to move in the search space. The best first scorch uses the concept Hill climbing algorithm search andfisher move in the direction which optimizes or a priority queue and heuristic Search the cost

It is a search algorithm that works on a spescific rule. The aim is to reach the goal from the initial state via the shortest poth. Best first search is an algorithm for finding the shortest path from a given starting hade to a goal node in a graph. explain the simulated annealing algorithm.

what are AND-OR Graphs The AND-OR GRANT CONTRACT VOCAN FORE Explain A* algorithm. > n* agorithm is searching algorithm representing the solution of Problems that searches for the shortest path that can saved by decomposing them between the initial and the final state into a set of smaller problems on which It is used to vorious applications, such must then be solved. This decomposition as maps in maps the of dignithm is or reduction, generates ares that we used to colculate the shortest distance between the source (initial state) and the destination (fimilitate) 84 Goal = Acaying TV set A* aggrithm has a forameters: ·9: The cost of moving from the initial Goal; Steal TV set Goal: earn some money Good : 64 TV seet cell to the current cell. Basically it is the sum of all the cells that have been (30) what is constraint satisfaction. 8 visited since reaving the first cell. In artificial inteligence and operations research, constraint sotisfaction is the . h: - also known as the heuristic value, process of finding a solution through a it is the estimated cost of moving from set of constraints that impose anditions the current cell to the final cell. that the variables must satisfy. The actual cost cannot be claculated until the final cell is reached (31) What is means - ends analysis & (2m) Hears - ends analysis is a problem of: it is the sym of 9 \$ h so Solving stratery that grose from the f = 9th. work on problem solving of Newell and simon (1972) In means-ends anathis, one solver a problem of considering the obstackics that stand between the



Date Date	In knowledge Representation.
Backward Reasoning (416)	what are facts & em Truth in some relevant would there are things that we want to represent
The forward reasoning Bacroward Reasoning is data driven approx- is soal driven.	P good system for representation of knowledge in a particular domain is a must in an AI problem, state the propries that such a system must present
The process stort with Backward Reasoning new data and begins with the facts in the forwards Result.	Dinferential Adequary (3) In Ferential Efficiency (4) Acquisitional efficiency
To determine the emphesis on the acts result followed by that support the Some sequence conclusion.	(3) state the various methods of penerenting knowledge: (m) (m) (m) (m) (m) (m) (m) (m
The forward reasoning In Barkward Reasoning is an approach because it have certain predetermine could Produce different initial data which makes receipts.	9 production Rules. 9 pescribe and two methods of representations 1 Describe and two methods of representations
Breasoning is from works in reverse order anteredant to in which it starts consequent. From conclusion to incipient	Logical Representation is a language. with some concrete Rules which deals with propositions and has no amhiguity in representation. Logical Representation

means drawing a conclusion housed on Various conditions. This representation lays down some important communication trues. It consist of precisely defined syntax and somethics which supports the sound inference.

entation. In semantic networks we can represent our knowledge in the form of graphical networks. This network consist of nodes representing objects and arcs which describe the relationship between those objects, semantic network can categorized the object in different forms and can also link those objects of semantic network can categorized the object in different forms and can also link those objects of semantic network can categorized the object in different forms and can also link those objects of semantic network can be easily extended.

(5) What are computable functions & Predictions

Predictions

Objects of study in computability

Theory. Computable functions are the

Formalized analogoue of the.

sense that a function is computable if there exist an algorithm that can do the job of the function.

ile given an input of the function deman it can return the corresponding output.

Turing machines or register machines

· predicate :-

A predicate is function that tests for some condition involving its arguments and returns nill if the condition is false i or some non-nill value if the condition is true one may think af predicate as producing a boolean value.

What is resolution & (2m)

> Resolution is a theorem proving technique

+host proceeds by building refutation

Proofs, i.e. proofs by contradictions.

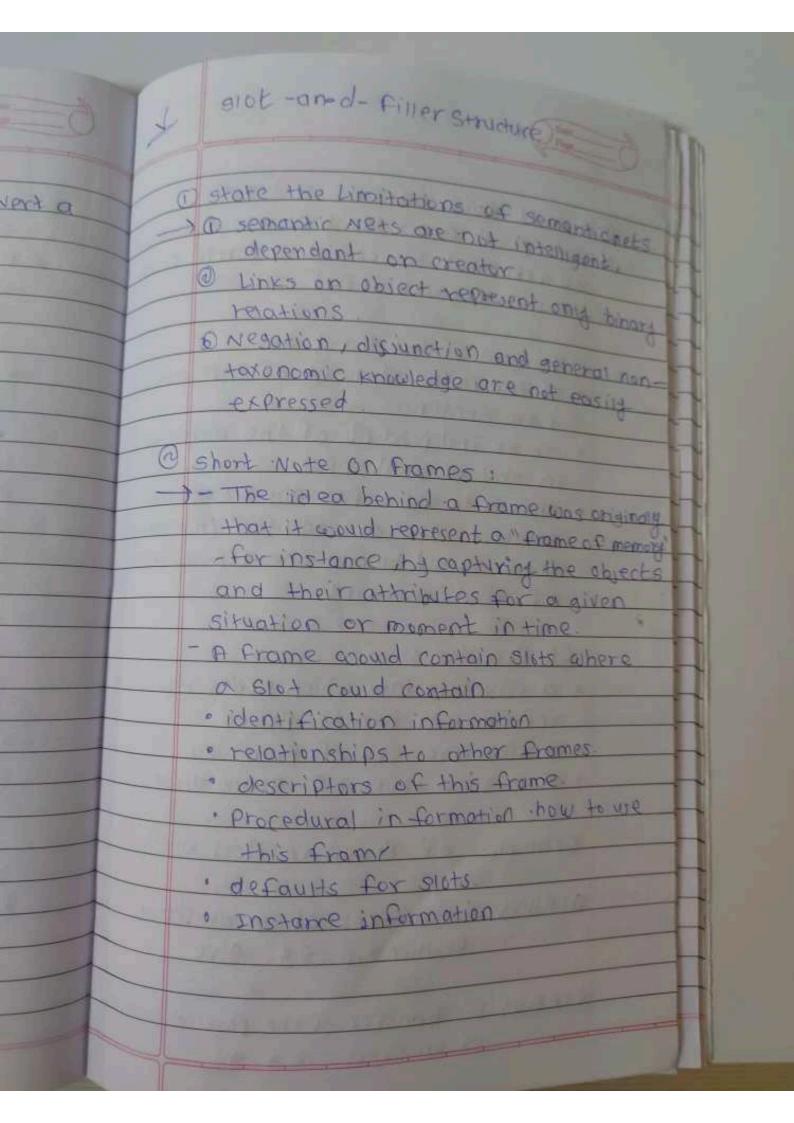
It was invented by a John plan Robinson

Presolution is used, If there are

Proving Statements are given and are

need to proof a conclusion of those

Statements.



PROPEL : Application of a physical force to an object . 68 Push (4-5 m) (4) short note on CD > conceptual Dependancy originally developed MTRANS: Transfer of Mental information to represent knowledge acquired from natural language input. MBUILD: construct new information from The goal of this theory are · To help in the drawing of inference old. ed deade From sentences. · To be independent of the words used short note on script in the original input. > 05 cripts were introduced by schools and · That is to say : for any 2 (or more) abelson introduced in 1977 that used sentences that are identical in meaning on framework there should be only one tepresentation @ The scripts are useful in describing of that meaning certain stereotyped situations such or as going to theater CD Provides :-The consist of set of slots containing · a structure into which nodes representing default values along with some information information can be placed about the type of values similar to · a spescific set of primitives. · at a given tensel of granuldritt frames 1) It differ from FS as the value of the Slots in script must be ordered and Examples of Primitive Octs are, have more specialized Roles. 1 In real world situations twe see that ATRANS => Transfer of an abstract event tends to occur in known potterns Relationship e.g. give because of clausal relationship to the · occurrence · of events PTRANS: - Transfer of the physical location of an object e.g. go

