

Professional Online Academy Vu Topper RM



CS607-P Artificial Intelligence Practical Update MCQ'S Quiz-3 File



Follow Us on YouTube:
[@vutopperrm](https://www.youtube.com/@vutopperrm)

For More Help Contact What's app Me!!!
Number's = # 0322-4021365, 0316-4980094

[Rizwan Manzoor](https://www.youtube.com/@vutopperrm)
[Vu Topper RM](https://www.youtube.com/@vutopperrm)

وَتَعَزُّ مَنْ تَشَاءُ وَتَذِلُّ مَنْ تَشَاءُ



Our Services

- Assignments
- Quiz & Gdb's
- LMS Handling
- Online Classes
- Lectures Views
- Project Handling
- Important Notes

Result

**85% To
100%**

پہلے ہمارے سٹوڈنٹس کے رزلٹ دیکھیں
پھر ہم سے سروسز لیں



www.youtube.com/@vutopperrm



Contact us

0322 4021365

0316 4980094

بری صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Time Complexity of Breadth First Search is _____ .

- A. $O(V * E)$
- B. $O(V)$
- C. $O(E)$
- D. $O(V + E)$**

Depth First Search (DFS) explores nodes by:

- A. Visiting nodes in random order
- B. Visiting as deep as possible along each branch before backtracking**
- C. Visiting all neighbouring nodes before going deeper
- D. Visiting nodes level by level

If DFS starts from A and visits C before B, what is the DFS traversal order? Graph (Adjacency List): $A \rightarrow B, C$ $B \rightarrow C$ $C \rightarrow$ (no outgoing edges)

- A. A, B, C
- B. A, C, B**
- C. A, C
- D. A, B

On the given graph, if we perform DFS starting from node A. Which of the following could be a valid DFS traversal order? Graph (Adjacency List): $A \rightarrow B, C$ $B \rightarrow$ (no outgoing edges) $C \rightarrow$ (no outgoing edges)

- A. A, B, C**
- B. C, A, B
- C. B, C, A
- D. C, B, A

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

In-Depth First Search (DFS) algorithm, if priority is given to the element with a minimum value of Priority Function, $P(n)$, then the node with the largest value of height will be at the _____ priority to be picked from queue Q.

- A. Zero
- B. Maximum**
- C. Minimum
- D. Average

In BFS, each vertex is visited:

- A. Once for each adjacent edge
- B. Exactly once**
- C. Twice
- D. Until a cycle is detected

In BFS, which nodes are visited first?

- A. Deepest nodes first
- B. Random nodes
- C. Nodes with the highest value
- D. Nodes closest to the start node**

_____ data structure is used in the implementation of Breadth First Search.

- A. Stack
- B. Linked List
- C. Queue**
- D. Tree

Which data structure is used to implement DFS iteratively?

- A. Heap
- B. Stack**

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

- C. List
- D. Queue

In BFS, what condition is used to add a node to the queue?

- A. If it has the smallest value
- B. If it has not been visited yet**
- C. If it has a parent node
- D. If its degree is even

If DFS starts from A and visits B before C, what is the DFS traversal order?

Graph (Adjacency List):

- A → B, C
- B → D
- C → D
- D → (no outgoing edges)

Reload Math Equations

- A, D, B, C
- A, C, D, B
- A, B, D, C**
- A, B, C, D

On the given graph, if DFS starts from A and visits C first, what is the traversal order?

Graph (Adjacency List):

- A → B, C
- B → C
- C → (no outgoing edges)

Reload Math Equations

- B, A, C
- A, C, B**

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

B, C, A
A, B, C

If DFS starts from A on the given graph, which node will NOT be visited?

Graph (Adjacency List):

A → B, C

B → C

D → A

Reload Math Equations

C

D

A

B

What is the space complexity of Depth-first search ?

O(bm)

O(bl)

O(b)

O(m)

_____ condition is sufficient to detect cycle in a directed graph.
There is an edge from currently being visited node to an already visited node

Every edge is seen twice in DFS

There is an edge from currently being visited node to an ancestor of currently visited node in DFS forest

Every node is seen twice in DFS

Which of the following are referred to as Informed search algorithms?

Both Best First Search and A* Search

بري صحبت سے تہائی بہتر ہے اور تہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Best First Search
Iterative Deeping Search
A* Search

What is true about Artificial Intelligence?

The Ability to act like human beings

The Ability to Solve Problems

The Ability to act Rationally

All of the Given

In-Depth First Search (DFS) algorithm, if priority is given to the element with a minimum value of Priority Function, $P(n)$, then the node with the largest

value of height will be at the _____ priority to be picked from queue Q.

Average

Minimum

Zero

Maximum

BFS stands for _____.

Basic Find Search

Breadth First Search

Best Forward Search

Breed First Search

_____ rejects all new paths that have loops.

BFS

DFS

Among mentioned below attributes, which one is true about Iterative Deepening DFS?

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

Reload Math Equations

It does not perform DFS in a BFS fashion.

It is considered as the preferred informed search method

It is a depth-first search with fixed depth limit

It's a Depth First Search Algorithm, but it does it one level at a time by gradually increasing the limit until a goal is found

_____ command is used to conduct numeric integration in MATLAB.

Reload Math Equations

int

trapz

nint

fint

Each chunk of information in CLIPS is called _____.

Reload Math Equations

Deefact

Rule

Fact

Deftemplate

To display comments of M-file in MATLAB, we use _____.

Reload Math Equations

echo on

show %

comment on

Cannot be displayed

The num2str command is used to _____.

بري صحبت سے تھائی بہتر ہے اور تھائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Reload Math Equations
Converts String to a Number
Concatenates Strings
Converts a Number to a String
Concatenates Numbers to a String

_____ command is used to clear a command window in MATLAB.

Reload Math Equations

clear
close all
clc
clear

_____ is the process of deriving logical conclusions from given facts.

Reload Math Equations

Reasoning

Execution
Representation
Planning

The defuzzification process for a _____ is more computationally efficient compared to that of a Mamdani system.

Reload Math Equations

Inference System

Fuzzy System

Expert System

Sugeno System

Evaluation of arguments in the functions proceeds with _____ pattern.

Reload Math Equations

Right to Left

Right Mid Left

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

Left to Right
Mid Right Left

_____ command is used to add the specified fact from CLIPS knowledge base to the fact list.

Reload Math Equations

Reset

Assert

Set

Add

_____ is the short hand notation for displaying the fact.

Reload Math Equations

Fact address

Fact tracer

Fact specifier

Fact identifier

You can use _____ to traverse the graph for considering locality as a concern.

A. Either BFS or DFS

B. Breadth First Search

C. Depth First Search

D. Graph Traversal

_____ search algorithm imposes a fixed depth limit on nodes.

Depth First Search

Depth Limited Search

_____ algorithm is used in the Game tree to make decisions of Win and Lose.

A. Min/Max Algorithm

B. Greedy Search Algorithm

بري صحبت سے تھائی بہتر ہے اور تھائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

- C. Heuristic Search Algorithm
- D. DFS/BFS algorithm

Question No:1 (Marks:1)

Vu-Topper RM

Fuzzy logic is a form of _____ .

- A. Crisp set logic
- B. Binary set logic
- C. Two-valued logic
- D. Many-valued logic**

Question No:2 (Marks:1)

Vu-Topper RM

MATLAB is a _____ .

- A. Mobile OS
- B. Programming Platform**
- C. Operating System
- D. First Computer

Question No:3 (Marks:1)

Vu-Topper RM

_____ symbol precedes all comments in MATLAB.

- A. *
- B. //
- C. %**
- D. Not in the list

Question No:4 (Marks:1)

Vu-Topper RM

Robot navigation is an example of _____ .

Fuzzy set
Theorem

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:5

(Marks:1)

Vu-Topper RM

Fuzzy logic is a form of _____ .

- A. Crisp set logic
- B. Binary set logic
- C. Two-valued logic
- D. Many-valued logic**

Question No:6

(Marks:1)

Vu-Topper RM

_____ is a command for sparse matrix generated from the spones.

- A. Same as an Identity Matrix
- B. Same as a Sparse Matrix**
- C. Double as that of a Sparse Matrix
- D. Same as of an Original Matrix

Question No:7

(Marks:1)

Vu-Topper RM

_____ reasoning is based on deducing old information from logically related known information.

- A. Abductive
- B. Analogical
- C. Deductive**
- D. Inductive

Question No:8

(Marks:1)

Vu-Topper RM

Which function is used to read data from an Excel file in MATLAB?

- A. load_excel
- B. xlsread**
- C. read_excel
- D. importdata

بري صحبت سے تھائی بہتر ہے اور تھائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:9

(Marks:1)

Vu-Topper RM

The Conjunction rule is _____ .

- A. $\sim x$ is $\sim A$, $\sim x$ is $\sim B \Rightarrow \sim x$ is $\sim A * \sim B$
- B. $\sim x$ is $\sim A$, $\sim x$ is $\sim B \Rightarrow \sim x$ is $\sim A - \sim B$
- C. $\sim x$ is $\sim A$, $\sim x$ is $\sim B \Rightarrow \sim x$ is $\sim A \wedge \sim B$**
- D. $\sim x$ is $\sim A$, $\sim x$ is $\sim B \Rightarrow \sim x$ is $\sim A * \sim B$

Question No:10

(Marks:1)

Vu-Topper RM

_____ deals with degrees of truth and degrees of membership.

- A. Inference
- B. Attribution
- C. Fuzzy**
- D. Intellect

Question No:11

(Marks:1)

Vu-Topper RM

_____ compute output through true values.

- A. Rule Evaluation
- B. Fuzzification
- C. Defuzzification**
- D. Rule Base

Question No:12

(Marks:1)

Vu-Topper RM

_____ of the following command lists the current variable in Matlab.

- A. who**
- B. pwd
- C. which
- D. trype

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:13

(Marks:1)

Vu-Topper RM

In this mode of reasoning, the antecedents & consequents have fuzzy linguistic variables _____.

- A. Syllogistic Reasoning
- B. Categorical Reasoning
- C. Qualitative Reasoning**
- D. Dispositional Reasoning

Question No:14

(Marks:1)

Vu-Topper RM

Which command is used to create a 3D plot in MATLAB?

- A. plot3()
- B. mesh()**
- C. 3dplot()
- D. scatter3()

Question No:15

(Marks:1)

Vu-Topper RM

MATLAB.

- A. fint
- B. trapz
- C. nint
- D. int**

Question No:16

(Marks:1)

Vu-Topper RM

_____ is the extension of script files.

- A. .script
- B. .mat
- C. .m**

بري صحبت سے تہائی بہتر ہے اور تہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

D. There is nothing called script file

Question No:17

(Marks:1)

Vu-Topper RM

ANN stands for _____ .

- A. Artificial Neural Network**
- B. Active Nation Network
- C. Artificial Neutral Network
- D. Alternate New Network

Question No:18

(Marks:1)

Vu-Topper RM

FCS stands for _____ .

- A. First Control System
- B. Final Count System
- C. Fuel Control System**
- D. Fuzzy Control System

Question No:19

(Marks:1)

Vu-Topper RM

_____ Command is used to save command window text to file.

- A. diary
- B. texttofile
- C. saveas**
- D. todiaary

Question No:20

(Marks:1)

Vu-Topper RM

FIS stands for _____ .

- A. Flat Image System
- B. Fuzzy Intelligent System
- C. Fuzzy Inference System**
- D. Fuzzy Intellectual System

Page 157

برى صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:21

(Marks:1)

Vu-Topper RM

Which of the following is not a pre-defined variable in matlab.

- A. i
- B. pi
- C. inf
- D. gravity**

Question No:22

(Marks:1)

Vu-Topper RM

There exists some other operators which are more linguistic in nature, called _____ that can be applied to fuzzy set theory.

- A. Fuzz Variable
- B. Hedges**
- C. Lingual Variable
- D. None of the Given

Question No:23

(Marks:1)

Vu-Topper RM

_____ types of Loops provided by MATLAB.

- A. While Loop
- B. Do While Loop
- C. All Loops**
- D. For Loop

Question No:24

(Marks:1)

Vu-Topper RM

Fuzzy logic uses _____ .

- A. Local variables
- B. Global variables
- C. Approximate variables

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

D. Linguistic variables

Question No:25

(Marks:1)

Vu-Topper RM

DFS stands for _____ .

- A. Durable First Search
- B. Depth Forward Search
- C. Deep First Search

D. Depth First Search

Question No:26

(Marks:1)

Vu-Topper RM

_____ among the following is incorrect for DFS and BFS.

- A. DFS and BFS code have the same time complexity
- B. BFS is equivalent to level order traversal in trees
- C. BFS is implemented using Queue

D. DFS is equivalent to post order traversal in trees

Question No:27

(Marks:1)

Vu-Topper RM

The Depth-First Search algorithm is implemented in recursion with _____ data structure.

- A. LIFA
- B. FILA
- C. FIFO

D. LIFO

Question No:28

(Marks:1)

Vu-Topper RM

Which searching algorithm among the following takes less memory?

- A. Breadth First Search
- B. Optimal Search

C. Depth First Search

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

D. Linear Search

Question No:29

(Marks:1)

Vu-Topper RM

What will be the time complexity of the iterative depth first search traversal code , where $V = \text{No. of Vertices}$, $E = \text{No. of Edges}$?

- A. $O(V * E)$
- B. $O(V)$
- C. $O(V + E)$**
- D. $O(E)$

Question No:30

(Marks:1)

Vu-Topper RM

Depth First Search is equivalent to _____ of the traversal in the Binary Trees.

- A. Pre-order Traversal**
- B. Level-order Traversal
- C. In-order Traversal
- D. Post-order Traversal

Question No:31

(Marks:1)

Vu-Topper RM

_____ Data Structure is mostly used to implement BFS.

- A. Stack
- B. Priority
- C. Queues**
- D. Linked

Question No:32

(Marks:1)

Vu-Topper RM

_____ construct allows initial information to be specified as a collection of facts.

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

A. Deffacts

B. Deftemplate

C. Facts

D. Fact index

Question No:33

(Marks:1)

Vu-Topper RM

_____ is used to put data in fact list.

A. Deftemplate

B. Slot name

C. Assert

D. Add

Question No:34

(Marks:1)

Vu-Topper RM

When we add a fact in the fact list a unique integer index is assigned to it called as _____ .

A. Factinteger

B. Index

C. Factindex

D. Factfloat

Question No:35

(Marks:1)

Vu-Topper RM

_____ command is used to modify the fact in the fact list.

A. Modify

B. Edit

C. Assert

D. Retract

Question No:36

(Marks:1)

Vu-Topper RM

_____ is the correct command used to retract all the facts.

A. CLIPS> (retract)

B. CLIPS> retract*

بري صحبت سے تنهائي بهتر ہے اور تنهائي سے نيك صحبت بهتر ہے

For More Help Contact What's app 03224021365

- C. CLIPS> (retract*)
- D. CLIPS> (*retract)

Question No:37 (Marks:1) **Vu-Topper RM**
To delete a specific fact from the fact list _____ command is used.

- A. Fact-number**
- B. Fact-address
- C. Fact-sequence
- D. Fact-index

Question No:38 (Marks:1) **Vu-Topper RM**
_____ is correct command to delete multiple facts from the fact list.

- A. CLIPS> retract 1 2
- B. CLIPS> (retract 1 3)**
- C. CLIPS> (1 3 retract)
- D. CLIPS> (retract 1)

Question No:39 (Marks:1) **Vu-Topper RM**
Removing all the facts from the fact list is called as _____ .

- A. Deletion
- B. Abstraction
- C. Assertion
- D. Retraction**

Question No:40 (Marks:1) **Vu-Topper RM**
In MATLAB _____ keyword immediately moves to the next iteration of the loop.

- A. Continue**

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

- B. Break
- C. Goto
- D. Update

Question No:41 (Marks:1) **Vu-Topper RM**
_____ command is used to modify the fact but it does not retract the original fact.

- A. Modify
- B. Duplicate
- C. Retract
- D. Edit**

Question No:42 (Marks:1) **Vu-Topper RM**
Arguments to a function can be _____.

- A. System defined data type
- B. Primitive data type
- C. Non primitive data type
- D. User defined data type**

Question No:43 (Marks:1) **Vu-Topper RM**
_____ are the features of MATLAB.

- A. Ease of Use and Good Source of Help
- B. All the mentioned Capabilities**
- C. Platform Independent
- D. Full Graphics Capabilities

Question No:44 (Marks:1) **Vu-Topper RM**
_____ is the return type of angles function in MATLAB.

- A. Degrees and Radians

بري صحبت سے تہائی بہتر ہے اور تہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

B. Degrees

C. Radians

D. Depends on the Arguments

Question No:45

(Marks:1)

Vu-Topper RM

_____ command is used to see the facts in the fact list.

A. Facts

B. See

C. Fact

D. Fact list

Question No:46

(Marks:1)

Vu-Topper RM

_____ is the correct command to delete the fact number 3.

A. CLIPS> retract 3

B. CLIPS> (delete 3)

C. CLIPS> (retract 3)

D. CLIPS> (3 retract)

Question No:47

(Marks:1)

Vu-Topper RM

_____ will be the output of the following function (+ 3 (* 8 9) 4).

A. 80

B. 78

C. 90

D. 79

Question No:48

(Marks:1)

Vu-Topper RM

_____ the correct command to see the facts in the fact list.

A. CLIPS> (facts list)

B. CLIPS> facts

C. CLIPS> (fact)

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

D. CLIPS> (facts)

Question No:49 (Marks:1) **Vu-Topper RM**
_____ of the following is not the extended math function in CLIPS.

- A. Tangent
- B. Addition**
- C. Hyperbolic
- D. Trig

Question No:50 (Marks:1) **Vu-Topper RM**
_____ of the following is the extended math function in CLIPS.

- A. Multiplication
- B. Division
- C. Hyperbolic**
- D. Addition

Question No:51 (Marks:1) **Vu-Topper RM**
f-0 represents _____ in the fact list.

- A. Ist-fact
- B. Zero-fact
- C. Last-facts
- D. Initial-fact**

Question No:52 (Marks:1) **Vu-Topper RM**
Functions that have been defined externally by the CLIPS environment are called _____ .

- A. User defined function**
- B. Private domain function

برى صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

- C. System defined functions
- D. Public domain function

Question No:53

(Marks:1)

Vu-Topper RM

In how many directions do queens attack each other?

- A. 2
- B. 3
- C. 4**
- D. 1

Question No:54

(Marks:1)

Vu-Topper RM

In n-queen problem, _____ number of n does not provide an optimal solution.

- A. 4
- B. 3
- C. 1
- D. 2**

Question No:55

(Marks:1)

Vu-Topper RM

Placing n-queen problem, so that no two queens will attack each other is known as _____.

- A. Subset sum problem
- B. Hamiltonian circuit problem
- C. 8-queen's problem
- D. n-queen's problem**

Question No:56

(Marks:1)

Vu-Topper RM

What is the domination number for 8-queen's problem?

- A. 7

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

B. 8

C. 5

D. 6

Question No:57

(Marks:1)

Vu-Topper RM

Time Complexity of 8-Queens Problem in back tracking algorithm is given as _____ .

A. $O(\log n)$

B. $O(n+1)$

C. $O(1)$

D. $O(n)$

Question No:58

(Marks:1)

Vu-Topper RM

The n-queens problem is implemented in _____ .

A. Ludo

B. Cards

C. Carom Board

D. Chess

Question No:59

(Marks:1)

Vu-Topper RM

_____ was the first solution to Eight Queen Puzzle published.

A. 1847

B. 1850

C. 1849

D. 1848

Question No:60

(Marks:1)

Vu-Topper RM

_____ methods can be used to solve n-queen's problem.

A. Backtracking

B. Greedy Algorithm

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

- C. Divide and Conquer
- D. Iterative Improvement

Question No:61 (Marks:1) **Vu-Topper RM**
_____ reasoning is based on deducing old information from logically related known information.

- A. Abductive
- B. Inductive
- C. Analogical
- D. Deductive**

Question No:62 (Marks:1) **Vu-Topper RM**
_____ deals with degrees of truth and degrees of membership.

- A. Intellect
- B. Fuzzy**
- C. Attribution
- D. Inference

Question No:63 (Marks:1) **Vu-Topper RM**
Fuzzy Logic mechanisms can result to _____ and smoother control.

- A. Probability
- B. Portability
- C. Simple Calculations
- D. Higher Accuracy**

Question No:64 (Marks:1) **Vu-Topper RM**
Robot navigation is an example of _____.

- A. Fuzzy set**
- B. Theorem

Question No:65 (Marks:1) **Vu-Topper RM**

بري صحبت سے تہائی بہتر ہے اور تہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

FCS stands for _____ .

- A. First Control System
- B. Fuzzy Control System**
- C. Fuel Control System
- D. Final Count System

Visit My YouTube Channel
For Subjective and More
Important Files
Channel Name = #VuTopperRM

برى صءبء سے ءءهائى بهءر هے اور ءءهائى سے نيك صءبء بهءر هے

For More Help Contact What's app 03224021365