

CS-607 Artificial Intelligence Update MCQS For Quiz-2 File Solve By Vu Topper RM

85% To 100% Marks



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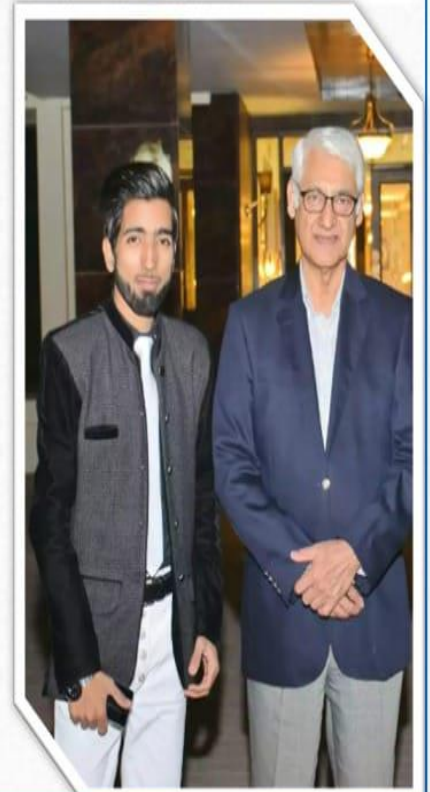
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In Line fitting problem using genetic algorithm usual way to compute the goodness to fit the polynomial on the given data points can be computed as _____.

- A. $y = mx + c$
- B. (actual y - predicted y)²**
- C. $y = mx$
- D. (actual y)²

An alternative method is the longest-matching strategy. This method involves firing the conclusion that was derived from the _____.

- A. Complex rule
- B. Longest rule**
- C. Forward chain rule
- D. Shortest rule

_____ is the part of the system that controls the process of deriving conclusions.

- A. An interpreter, or inference engine**
- B. A database of facts
- C. A knowledge base
- D. An object

How many types of facts are there in formal knowledge representation?

- A. 6
- B. 5**
- C. 4
- D. 7

Inference engine matches the facts contained in the _____ with the _____ contained in the knowledge base, to draw conclusions about the problem.

- A. Working memory, domain knowledge**

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- B. object, class
- C. Fact table, working memory
- D. Rule engine, operators

Question No:1

(Marks:1)

Vu-Topper RM

_____ has the same notion of having something or some attribute from a parent.

- A. Mutation
- B. Gene
- C. Crossover

D. Inheritance

Page 77

ok

Question No:2

(Marks:1)

Vu-Topper RM

The ability to understand things without explicitly programmed a computer is called?

- A. Fuzzy logic
- B. Deep learning
- C. Machine learning

D. Artificial Intelligence

Question No:3

(Marks:1)

Vu-Topper RM

“If you find the goal, exit, otherwise repeat DFS to the next lower level”.

The statement refers to:

- A. Depth first search
- B. Breadth first search

C. Progressive Deepening

Page 32

D. None progressive depending

Question No:4

(Marks:1)

Vu-Topper RM

_____ is based on deducing new information from logically related known information.

- A. Inductive reasoning

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- B. Abductive reasoning
C. Deductive reasoning
D. Common-sense reasoning

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Question No:5 (Marks:1) **Vu-Topper RM**
Hit and trial is a classical approach to solve the _____ problems easily.

- A. Trivial** **Page 15**
B. medium
C. complex
D. structured

Question No:6 (Marks:1) **Vu-Topper RM**
The searching technique in which we purely use a hit and trial approach and will check all combinations till one takes it to the exact solution is referred to as _____.

- A. Blind/uninformed** **Page 23**
B. Informed/heuristic
C. Path/non-optimal
D. Optimal path

Question No:7 (Marks:1) **Vu-Topper RM**
Genetic algorithm start with the population of randomly generated, attempted solutions to a problem and repeatedly do the following except _____.

- A. Keep the best solutions
B. Perform non parallel search **Page 77** **ok**
C. Evaluate each attempted solutions
D. Produce next generation using inheritance and mutation.

Question No:8 (Marks:1) **Vu-Topper RM**
We use graphs to represent problems and their _____.

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- A. Parameters
- B. Knowledge base
- C. Solution spaces**
- D. Nodes and vertices

Page 22

Question No:9

(Marks:1)

Vu-Topper RM

_____ is the type of knowledge that can be described as the knowledge about knowledge.

- A. Meta knowledge**
- B. Fuzzy knowledge
- C. Uncertain knowledge
- D. Declarative knowledge

Page 90

ok

Question No:10

(Marks:1)

Vu-Topper RM

The ability to learn and recognize things automatically called?

- A. Fuzzy logic
- B. Intelligence**
- C. Problem solving
- D. Defining the problem

Page 6

Question No:11

(Marks:1)

Vu-Topper RM

Most of the solution spaces for problems can be represented in a _____.

- A. Tree
- B. Table
- C. Graph**
- D. Demo

Page 21

Question No:12

(Marks:1)

Vu-Topper RM

If Alpha implies beta is true and beta is known to be not true, then alpha could not have been true. This rule refers to:

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A. Modus tolens

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ok

B. Modus ponens

C. And-Elimination

D. And-Introduction

Question No:13

(Marks:1)

Vu-Topper RM

The initial state and the legal moves for each side define the _____ for the game.

A. Forest

B. Search tree

C. Game Tree

Page 63

D. State-space search

Question No:14

(Marks:1)

Vu-Topper RM

In AI cycle _____ are closely coupled components; each is intrinsically tied to the other.

A. Reasoning

Page 89

B. Learning and planning

C. Learning and execution

D. Perception and planning

Question No:15

(Marks:1)

Vu-Topper RM

What is the other name of the informed search strategy?

A. Online search

B. Simple search

C. Heuristic search

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D. None of the mentioned

Question No:16

(Marks:1)

Vu-Topper RM

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The problem is to place 8 queens on a chess board by using genetic algorithm, so that none of them can attack the other. A chess board can be considered as a plain board with _____ columns and _____ rows.

- A. Eight, six
- B. Eight, nine
- C. Eight, eight**
- D. Eight, seven

Page 82

Question No:17

(Marks:1)

Vu-Topper RM

There are many techniques to solve our problem of optimal search without using a brute force technique; one such procedure is called _____.

- A. Depth first method
- B. Branch and Bound**
- C. Breadth first method
- D. Progressive deepening

Page 48

Question No:18

(Marks:1)

Vu-Topper RM

_____ is a description of valid statements, the expressions that are legal in that language.

- A. Syntax**
- B. Operator
- C. Behavior
- D. Semantics

Page 104

Question No:19

(Marks:1)

Vu-Topper RM

To create intelligent machines we first need to understand how the real .

- A. Brain functions**
- B. Human body works
- C. Introspection of mind
- D. Psychological experiment

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Question No:20

(Marks:1)

Vu-Topper RM

“In context of Hill climbing algorithm, a person may reach the portion of a mountain which is totally flat, whatever step he takes gives him no improvement in height hence he gets stuck.” The above statement refers to:

A. Plateau problem

Page 40

B. Simple problem

C. Logic problem

D. None of the these

Question No:21

(Marks:1)

Vu-Topper RM

The conference that launched the AI revolution in 1956 was held at?

A. Stanford

B. Harvard

C. New York

D. Dartmouth

Page 10

Question No:22

(Marks:1)

Vu-Topper RM

Cost of a human expert is _____ as compared to an expert system

A. Low

B. High

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ok

C. Average

D. Medium

Question No:23

(Marks:1)

Vu-Topper RM

The expert system models the following aspect(s) of human expert

A. Knowledge

B. Reasoning

C. Both

D. None of these

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Question No:24

(Marks:1)

Vu-Topper RM

The machine has _____, it would have used its knowledge to counter for this new situation in its environment

- A. Inference system
- B. Weak intelligence
- C. Strong intelligence**
- D. Efficient algorithms

Page 9

Question No:25

(Marks:1)

Vu-Topper RM

_____ AI actually tries to recreate the functions of the inside of the brain as opposed to simply emulating behavior.

- A. Weak
- B. Strong**
- C. Intermediate
- D. Weak and Strong

Page 8

Question No:26

(Marks:1)

Vu-Topper RM

Implication can also be represented as $(A \rightarrow B) = ?$

- A. $\neg A \vee B$**
- B. $\sim A \wedge B$
- C. $A \vee \sim B$
- D. $A \wedge \sim B$

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Question No:27

(Marks:1)

Vu-Topper RM

_____ can be viewed as the processor in an expert system.

- A. System memory
- B. Knowledge base

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C. Inference engine

Page 117

D. Working memory

Question No:28

(Marks:1)

Vu-Topper RM

General games involves _____.

A. Multi-agent

B. Single-agent

C. Only single-agent and multi-agent

Page 62

D. Neither single-agent nor multi-agent

Question No:29

(Marks:1)

Vu-Topper RM

Adversarial search problems uses _____.

A. Competitive environment

Page 62

B. Cooperative environment

C. Neither competitive nor cooperative environment

D. An only competitive and cooperative environment

Question No:30

(Marks:1)

Vu-Topper RM

IF A THEN B This can be considered to have a similar logical meaning as the following:

A. A-> B

Page 99

B. A<-> B

C. B<-> A

D. A <- B

Question No:31

(Marks:1)

Vu-Topper RM

If an arrow points from node "A" to Node "B" then, node "B" will be called:

A. Child of node "A"

Page 21

B. Parent of node "A"

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- C. Fan-out of node "A"
- D. Branching node "A"

Question No:32 (Marks:1) **Vu-Topper RM**

What is artificial intelligence?

- A. Playing a Game
- B. Making a machine intelligent**
- C. Programming with your intelligence
- D. Putting your intelligence into Computer

Question No:33 (Marks:1) **Vu-Topper RM**

The Breadth-First Search traversal of a graph will result into?

- A. Tree** **Page 28**
- B. Arrays
- C. Linked List
- D. Graph with back edges

Question No:34 (Marks:1) **Vu-Topper RM**

R1/XCON expert system was developed by?

- A. DELL
- B. Digital Computer Corporation
- C. Digital Equipment Corporation** **Page 112** **ok**
- D. Computer accessories company

Question No:35 (Marks:1) **Vu-Topper RM**

Every graph can be converted into a_____

- A. Tree** **Page 22**
- B. Problem
- C. Statement
- D. Repeated cycle

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Question No:36

(Marks:1)

Vu-Topper RM

A function by which we can tell which board position is nearer to our goal is called.

A. Best function

B. Fitness function

Page 83

C. Recursive function

D. Alternative function

Question No:37

(Marks:1)

Vu-Topper RM

Graphs and Networks allow _____ between objects/entities to be incorporated.

A. Pictures

B. Relationships

Page 92

ok

C. Representation

D. Communication

Question No:38

(Marks:1)

Vu-Topper RM

Back-propagation learning algorithm was invented by ____.

A. Alan Turing

B. Bryson and ho

Page 12

C. John McCarthy

D. Marvin Minsky

Question No:39

(Marks:1)

Vu-Topper RM

The simple idea behind _____ is that if we can reach a specific node through more than one different paths then we shall take the path with the minimum cost.

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- A. Estimates
- B. Beam search
- C. Progressive deepening

D. Dynamic programming

Page 55

Question No:40

(Marks:1)

Vu-Topper RM

The simplest way to perform _____ is to combine the head of one individual to the tail of the other.

- A. DFS
- B. BFS
- C. Mutation

D. Crossover

Page 82

ok

Question No:41

(Marks:1)

Vu-Topper RM

How many types of rules are there in formal knowledge representation?

- A. 1
- B. 3
- C. 7
- D. 4

Page 96

ok

Question No:42

(Marks:1)

Vu-Topper RM

Which of the following is not the main phase of the linear sequence?

- A. System evaluation
- B. Planning
- C. Code

D. Requirement engineering

Page 129

Question No:43

(Marks:1)

Vu-Topper RM

The symbol for the existential quantifier is represented as _____. It is also read as "there exists".

A. \forall

B. \exists

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C. \oplus

D. #

Question No:44

(Marks:1)

Vu-Topper RM

In CLIPS, the Defrule construct is used to add

A. Facts

B. Rules

Page 135

C. Agenda

D. Principles

Question No:45

(Marks:1)

Vu-Topper RM

Which of the following is not considered being trait(s) of an expert?

A. They possess long term memory

Page 111

B. They possess experience the given area

C. They possess specialized knowledge in certain area

D. They can provide, upon elicitation, an explanation of their decisions

Question No:46

(Marks:1)

Vu-Topper RM

Which of the following is NOT one of the expert systems?

A. XOR

Page 112

B. Mycin

C. Dendral

D. R1/XCON

Question No:47

(Marks:1)

Vu-Topper RM

-----are able to override the normal rules in expert systems.

A. Meta rules

Page 96

B. Forward chain

C. Backward chain rules

D. Conflict resolution rules

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Question No:48

(Marks:1)

Vu-Topper RM

_____ are data structures for representing stereotypical knowledge of some concept or object.

A. Frames

Page 98

- B. Resolutions
- C. Disjunctions
- D. Conjunctions

Question No:49

(Marks:1)

Vu-Topper RM

Which of the following command is used to see the added facts in CLIPS?

A. (fact)

B. Fact

C. (facts)

Page 135

D. Deftemplate

Question No:50

(Marks:1)

Vu-Topper RM

Ability to tackle ambiguous and fuzzy problems demonstrate.

A. Intelligence

Page 6

- B. Deep learning
- C. Machine leaning
- D. Non intelligence

Question No:51

(Marks:1)

Vu-Topper RM

Which approach is used by the Best First Search algorithm while searching?

A. Greedy

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- B. Heuristic
- C. Combinatorial

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D. Divide and Conquer

Question No:52

(Marks:1)

Vu-Topper RM

Facts are the atomic units of knowledge. They represent the following type of knowledge.

- A. Common knowledge
- B. Meta knowledge
- C. Procedural knowledge

D. Declarative knowledge

Page 94

ok

Question No:53

(Marks:1)

Vu-Topper RM

Can we precisely define Artificial Intelligence?

- A. Yes We Can
- B. No we cannot**
- C. Both
- D. None

Page 14

Question No:54

(Marks:1)

Vu-Topper RM

he ability to think, plan and schedule demonstrate _____.

- A. Intelligence**
- B. Deep learning
- C. Problem-solving
- D. Machine learning

Page 5

Question No:55

(Marks:1)

Vu-Topper RM

In backward chaining terminology, the hypothesis to prove is called the _____.

- A. Plan
- B. Goal**
- C. Proof
- D. None of these

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Question No:56

(Marks:1)

Vu-Topper RM

The traveling inside a solution space requires something called as

_____.

A. Operands

B. Operators

Page 18

C. Space solution

D. Inner solution

Question No:57

(Marks:1)

Vu-Topper RM

Genetic Algorithms is a search method in which multiple search paths are followed in _____.

A. Series

B. Parallel

Page 77

C. Sequential

D. None of the give

Question No:58

(Marks:1)

Vu-Topper RM

Genetic algorithm use _____.

A. Pipelining

B. Heuristic approach

C. Parallel approach

Page 77

D. Sequential approach

Question No:59

(Marks:1)

Vu-Topper RM

Says that from "Alpha" and from "Beta" you can conclude "Alpha and Beta".

A. Modus tolens

B. Modus ponens

C. And-Elimination

D. And-Introduction

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Question No:60

(Marks:1)

Vu-Topper RM

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Predicate calculus allows us to use quantifiers for statements, the symbol for the universal quantifier is represented as_____.

- A. \forall** **Page 100** **ok**
B. \exists
C. \therefore
D. \therefore

Question No:61 **(Marks:1)** **Vu-Topper RM**

In eight queen problem after performing mutation we flip bits at random and new board position is represented in binary as follows 0100 0101 1000 0010 0111 0001 0011 0101 Which of the following represent the new board position of individuals?

- A. 4 3 8 2 7 1 3 5
B. 4 5 3 2 7 1 3 5
C. 4 5 8 2 7 1 3 5 **Google**
D. 4 5 8 2 2 1 3 5

Question No:62 **(Marks:1)** **Vu-Topper RM**

Intelligence is the ability to _____.

- A. Think
B. Learn
C. Plan and Schedule
D. All of the above **Page 5**

Question No:63 **(Marks:1)** **Vu-Topper RM**

The tractable problems are further divided into structured and _____ problems.

- A. Simple
B. Complex **Page 166**
C. Non-structured
D. None of the above

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Question No:64

(Marks:1)

Vu-Topper RM

In optimal path search we try to find the _____ solution

A. Best

Page 24

B. Worst

C. Least

D. Least but not worst

Question No:65

(Marks:1)

Vu-Topper RM

Alpha beta pruning relates to:

A. Depth first search

B. Breadth first search

C. Minmax procedure

Page 64

D. Progressive deepening

Question No:66

(Marks:1)

Vu-Topper RM

The foothill problem occurs whenever there are _____ peaks.

A. High

B. Deep

C. Primary

D. Secondary

Google

Question No:67

(Marks:1)

Vu-Topper RM

A statement in conjunctive normal form (CNF) consists of _____

A. Ors

B. ANDS

C. ANDs of Ors.

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ok

D. Ord of ANDS

Question No:68

(Marks:1)

Vu-Topper RM

Intelligence is the characteristic of

A. All things

B. All of them

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C. Living being

D. None of them

Question No:69

(Marks:1)

Vu-Topper RM

In ___ search(es), we only have one agent searching solution space to

- A. Find goal state
- B. None of these
- C. Depth first search

D. All of the given

Question No:70

(Marks:1)

Vu-Topper RM

Solving 32-bit computer words using genetic algorithm we want a string in which all the bits are ones. We count the 1 bits in each word and exit if any of the words having all 32 bits set to 1 by using _____.

- A. Mutation
- B. Search space
- C. Initial population

D. Evaluation function

Page 78

ok

Question No:71

(Marks:1)

Vu-Topper RM

In the linear model which is not the step of the planning phase?

- A. Resource allocation
- B. Feasibility assessment

C. Knowledge engineering

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D. Task phasing and scheduling

Question No:72

(Marks:1)

Vu-Topper RM

___ is used when the facts of the case are likely to change after some time.

- A. Inductive reasoning
- B. Analogical reasoning
- C. Common-sense reasoning

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Question No:73

(Marks:1)

Vu-Topper RM

Which of the following is NOT one of the drawbacks of depth first search?

- A. Requires the tree to be a complete tree
- B. Does not guarantee finding the shallowest goal
- C. Cut-off depth is similar so time complexity is more** **Page 2**
- D. Can run forever in search spaces with infinite length paths

Question No:74

(Marks:1)

Vu-Topper RM

In eight queen problem for the given sequence 1 6 5 3 2 5 3 7 the position of Q4 queen is at _____.

- A. Eighth column and second
- B. First column and third row
- C. Fourth column and third row** **Page 83** **ok**
- D. Second column and third row

Question No:75

(Marks:1)

Vu-Topper RM

In ___ we may have multiple agents searching for solution in the same solution space

- A. Depth first search
- B. Breadth first search
- C. Adversarial search** **Page 62**
- D. Progressive deepening

Question No:76

(Marks:1)

Vu-Topper RM

In genetic problem we start with a population of randomly generated _____ to a problem.

- A. BFS
- B. DFS

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C. Final state

D. Attempted solutions

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Question No:77

(Marks:1)

Vu-Topper RM

Reasoning in backward chaining is known as:

- A. Data-driven reasoning
- B. Rule-driven reasoning

C. Goal-driven reasoning

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D. Intelligence-driven reasoning

Question No:78

(Marks:1)

Vu-Topper RM

“Given that there is dry wood, oxygen and a spark, we can conclude that there will be fire”. The above statement refers to:

- A. Inductive reasoning
- B. Abductive reasoning

C. Deductive reasoning

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D. Common-sense reasoning

Question No:79

(Marks:1)

Vu-Topper RM

_____ uses evolutionary techniques, based on function optimization and intelligence, to develop a solution.

A. Genetic algorithm

Page 77

B. Dynamic algorithm

C. Sequential algorithm

D. Conventional algorithm

Question No:80

(Marks:1)

Vu-Topper RM

Atomic units of knowledge called?

A. Rules

B. Facts

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ok

C. Methods

D. Proposition

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Question No:81

(Marks:1)

Vu-Topper RM

Expert system technique where a hypothesis is given at the beginning and the inference engine proceeds to ask the user questions about selected facts until the hypothesis is either confirmed or denied

- A. Data mining
- B. Forward chaining
- C. Backward chaining**
- D. Network Knowledge

Page 126

Question No:82

(Marks:1)

Vu-Topper RM

The component of the system that performs inference is called:

- A. Inference class
- B. Inference object
- C. Inference engine**
- D. Inference manager

Page 104

ok

Question No:83

(Marks:1)

Vu-Topper RM

LISP was created by?

- A. Alan Turning
- B. Marvin Minsky
- C. John McCarthy**
- D. Allen Newell and Herbert Simon

Google

Question No:84

(Marks:1)

Vu-Topper RM

To which depth does the alpha-beta pruning can be applied?

- A. 10 states
- B. 20 states
- C. 30 states
- D. Any depth**

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Question No:85

(Marks:1)

Vu-Topper RM

“Specialized knowledge” in human experts is referred to as _____
when it comes to an expert system.

A. Predicate engine

B. Domain knowledge

Page 116

C. Reasoning Knowledge

D. Affirmation knowledge

Question No:86

(Marks:1)

Vu-Topper RM

A natural language generation program must decide ____

A. what to say

B. Why it is being used

C. When to say something

D. both what to say & when to say something

Google

Question No:87

(Marks:1)

Vu-Topper RM

____ combine predicates and quantifiers to represent information

A. Objects

B. Subject

C. Formulae

Page 101

D. Constants

Question No:88

(Marks:1)

Vu-Topper RM

In CNF(Conjunctive normal form) the outermost structure is made up of ____
and inner units called clauses are made up of ____

A. Resolution, refutation

B. Refutation, resolution

C. Disjunctions, conjunctions

D. Conjunctions, disjunctions

Page 108

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Question No:89

(Marks:1)

Vu-Topper RM

The formulae $(\exists x) (\text{Person}(x) \wedge \text{father}(x, \text{Ahmed}))$ can be translated in simple words and read as.

- A. For all person, x who is Ahmed's father
- B. For all person, x who is Ahmed's daughter.
- C. There exists some person, x who is Ahmed's father Page 100 ok**
- D. There exists some person, x who is Ahmed's daughter.

Question No:90

(Marks:1)

Vu-Topper RM

To create systems that can learn, think, perceive, analyze, and act in the same manner as real humans are the art of ____.

- A. Fuzzy logic
- B. Deep learning
- C. Machine learning
- D. Artificial Intelligence Page 8**

Question No:91

(Marks:1)

Vu-Topper RM

A fact or proposition is divided into two parts and are represented as ____

- A. Object and logic
- B. Algebra and calculus
- C. Reasoning and variable
- D. Predicate and argument Page 101**

Question No:92

(Marks:1)

Vu-Topper RM

____ describes objects, rather than processes. That is known about a situation, e.g. it is sunny today, and cherries are red

- A. Meta knowledge
- B. Heuristic knowledge
- C. Procedural knowledge
- D. Declarative knowledge Page 90**

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Question No:93

(Marks:1)

Vu-Topper RM

In Breadth-First Search, how many times a node is visited?

- A. Once
- B. Twice
- C. Equivalent to number of in-degree of the node**
- D. Thrice

Question No:94

(Marks:1)

Vu-Topper RM

Performance of an expert system is _____ as compared to a human expert.

- A. High**
- B. Low
- C. Medium
- D. Average

Page113

Question No:95

(Marks:1)

Vu-Topper RM

In Genetic algorithm _____ has the same notion of having something or some attribute from a parent while _____ refers to a small random change.

- A. DFS, BFS
- B. Inheritance, mutation**
- C. A*, Dynamic programming
- D. Subtraction, multiplication

Page 77

ok

Question No:96

(Marks:1)

Vu-Topper RM

Which of the following is NOT one of the steps of simple search algorithm?

- A. Initialize priority queue.
- B. Check if the priority queue is empty.
- C. Copy visited queue to priority queue.**
- D. If node picked from priority queue is goal node, then return.

Page 24

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Question No:97

(Marks:1)

Vu-Topper RM

The rules that define how conflict resolution will be used, and how other aspects of the system itself will run, are called _____.

- A. Meta rules
- B. Forward chain rules
- C. backward chain rules

D. Conflict resolution rules

Page 125

Question No:98

(Marks:1)

Vu-Topper RM

Identify the TRUE statement regarding “Heuristics”:

- A. Both “heuristic” and “algorithm” are same thing.
- B. Heuristics never give us good guess to reach to goal state.
- C. Heuristics always give us good guess to reach to goal state.

D. Heuristics don't always give us good guess to reach to goal state. Page 37

Question No:99

(Marks:1)

Vu-Topper RM

To implement simple search algorithm as breadth first search, we use the formula given below and give priority to element with _____ $P(n)$ value where: $P(n) = \text{height}(n)$

- A. Average
- B. Absolute

C. Minimum

Page 28

D. Maximum

Question No:100

(Marks:1)

Vu-Topper RM

An expert system models the following aspect(s) of human expert

- A. Operators
- B. Operations
- C. Implications

D. Knowledge and reasoning

Page 111

Question No:101

(Marks:1)

Vu-Topper RM

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“In context of Hill climbing algorithm, you might just reach local maxima and think that you have reached the global maxima, so getting stuck in the middle of searching the solution space.” The above statement refers to:

- A. Slope problem
- B. Ridge problem
- C. Plateau problem

D. Foothill problem Page 39

Question No:102 (Marks:1) **Vu-Topper RM**

Solving the problem through genetic algorithm___on the number of iterations is usually used to end the process in finite time.

- A. No limit
- B. Upper limit** Page 86
- C. Lower limit
- D. Middle limit

Question No:103 (Marks:1) **Vu-Topper RM**

CLIPS stands for:

- A. C Linguist Integrated Production System
- B. C# Language Integrated Production System
- C. C Language Integrated Production System** Page 133
- D. COBOL Language Integrated Production System

Question No:104 (Marks:1) **Vu-Topper RM**

Some essential components of problem solving are Problem Statement, _____, Solution Space and Operators.

- A. Goal State** Page 17
- B. Initial State
- C. Intermediate
- D. Complex State

Question No:105 (Marks:1) **Vu-Topper RM**

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Which of the following is true?

- A. A graph may contain no edges and no vertices
- B. A graph may contain no vertices and many edges
- C. A graph may contain no edges and many vertices
- D. A graph may contain many edges and no vertices**

Question No:106

(Marks:1)

Vu-Topper RM

Variation in the offspring's(children) of the individuals are due to_____.

- A. Mutation
- B. Crossover
- C. Inheritance

D. Both mutation and inheritance **Page 77**

Question No:107

(Marks:1)

Vu-Topper RM

Which of the following, is not a component of an expert system?

- A. Template**
- B. User interface
- C. Inference engine
- D. Knowledge-base

Page 116

Question No:108

(Marks:1)

Vu-Topper RM

In _____ search, rather than trying all possible search paths, we focus on paths that seem to be getting closer to goal state using some kind of “guide”.

- A. Depth
- B. Heuristic**
- C. Uninformed
- D. Progressive deepening

Page 37

Question No:109

(Marks:1)

Vu-Topper RM

Which of the following is not a branch and bound strategy to generate branches?

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- A. LIFO branch and bound
- B. FIFO branch and bound
- C. Lowest cost branch and bound
- D. Highest cost branch and bound**

Question No:110 (Marks:1) **Vu-Topper RM**

“I have never seen horses eating meat, so I can conclude that horses never eat meat”. The given statement refers to:

- A. Inductive reasoning** **Page 102**
- B. Abductive reasoning
- C. Common-sense reasoning
- D. Non-monotonic reasoning

Question No:111 (Marks:1) **Vu-Topper RM**

Expert system can be expressed as:

- A. It provides tools for the management, delivery, tracking, and assessment of various types of employee learning and training
- B. The set of business processes, culture, and behavior required to obtain value from investments in information systems
- C. Used for finding the optimal solution for a specific problem by examining a very large number of possible solutions for that problem
- D. Intelligent technique for capturing tacit knowledge in a very specific and limited domain of human expertise, this knowledge is converted to rules that can be used throughout the entire organization** **Page 112** **ok**

Question No:112 (Marks:1) **Vu-Topper RM**

The state that represents the solution of the problem is called __. a.

- A. Goal space** **Page 17**
- B. Solution space
- C. Knowledge base
- D. Problem statement

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Question No:113

(Marks:1)

Vu-Topper RM

What will be the output when we will remove arrow?

A. $A \rightarrow B$

B. $\sim A \vee \sim B$

C. $\sim A \vee B$

Page 108

D. $A \vee \sim B$

Question No:114

(Marks:1)

Vu-Topper RM

If Ali is 2 years younger than Umar and Umar is 23 years old. How old is Ali?

A. Ali is 22 years old.

B. Ali is 21 years old.

Page 10

C. Ali is 23 years old.

D. All is 20 years old.

Question No:115

(Marks:1)

Vu-Topper RM

Speed of an expert system is _____ as compared to a human expert.

A. Low

B. High

Page 113

C. Medium

D. Average

Question No:116

(Marks:1)

Vu-Topper RM

“The process of working with knowledge, facts and problem solving strategies to draw conclusions”. The above statement refers to:

A. Reasoning

Page 102

ok

B. Refutation

C. Conversion

D. Object-attribute-value triplet

Question No:117

(Marks:1)

Vu-Topper RM

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Is the part of the system that controls the process of deriving conclusions

A. An object

B. A knowledge base

Page 117

C. A database of facts

D. An interpreter, or inference engine

Question No:118

(Marks:1)

Vu-Topper RM

In the sequence 2 6 8 3 4 5 3 1, where will the value of Q5 placed in eight queen problem?

A. 7th row and 6th column

B. 2nd row and 1st column

C. 4th row and 5th column

Page 83

ok

D. 3rd row and 2th column

Question No:119

(Marks:1)

Vu-Topper RM

The genetic algorithm technology comes from the concept of _____ evolution.

A. Animals

B. Robots

C. Human

Page 77

D. Artificial intelligence

Question No:120

(Marks:1)

Vu-Topper RM

Identify the TRUE statement about alpha-beta pruning:

A. It decides about branching factor in a tree

B. It is core of progressive deepening search

C. Beta is the maximum upper bound of possible solutions

D. It reduces both the tree branches that must be generated and

the number of evaluations

Page 64

Question No:121

(Marks:1)

Vu-Topper RM

Which search is equal to min max search but eliminates the branches that can't influence the final decision?

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- A. Beam search
- B. Depth-first search
- C. Breadth-first search

D. Alpha-beta pruning

Page 64

Question No:122

(Marks:1)

Vu-Topper RM

Forward chaining is known as:

A. Data-driven reasoning

Page 123

- B. Rule-driven reasoning
- C. Goal-driven reasoning
- D. Intelligence-driven reasoning

Question No:123

(Marks:1)

Vu-Topper RM

In eight queen problem the given sequence 2 6 8 3 4 5 3 1 illustrates that in _____ column the queen is placed in the _____ row.

- A. First, fifth
- B. Third, fifth

C. Second, sixth

Page 83

D. Sixth, second

Question No:124

(Marks:1)

Vu-Topper RM

In context of tree, an arrow from one node to other is called:

A. Root

B. Edge

C. Ancestor

D. Descendant

Question No:125

(Marks:1)

Vu-Topper RM

The "part of the expert system that contains the problem facts that are discovered during the session" is called:

A. System memory

B. Reserved media

C. Working memory

Page 117

ok

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D. Secondary storage

Question No:126

(Marks:1)

Vu-Topper RM

Psychological experiments deal with the stud of__.

A. Introspection

B. Study of the mind

C. Science of mental life

Page 8

D. Science of human body life

Question No:127

(Marks:1)

Vu-Topper RM

_____type of knowledge can be represented as the Rule-of-thumb.

A. Meta

B. Semantic

C. Heuristic

Page 90 ok

D. Procedural

Question No:128

(Marks:1)

Vu-Topper RM

Backward chaining, however, starts with the_ and tries to reach down to all primitive nodes (marked by '?'), where information is sought from the user.

A. Last state

B. Goal state

Page 127

C. Transition state

D. Intermediate state

Question No:129

(Marks:1)

Vu-Topper RM

In ____ search, out of "n" possible choices at any level, we follow only the best "k" of them.

A. Beam search

Page 43

B. Depth first search

C. Breadth first search

D. Progressive deepening

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Question No:130

(Marks:1)

Vu-Topper RM

Every graph can be converted into a tree, by replacing the_.

- A. Edges
- B. Nodes**
- C. Branches
- D. Terminals

Page 22

Question No:131

(Marks:1)

Vu-Topper RM

Which of the following best represents the term perceptron?

- A. An auto-associative neural network
- B. A neural network that contains feedback
- C. A double layer auto-associative neural network
- D. A single layer feed-forward neural network with pre-processing**

Question No:132

(Marks:1)

Vu-Topper RM

The term artificial intelligence was first came into existence in

- A. 1954
- B. 1955
- C. 1956**
- D. 1957

Page 10

Question No:133

(Marks:1)

Vu-Topper RM

If you know that Alpha implies beta, and you know alpha to be true, you can automatically say that beta is true.

- A. Modus tolens
- B. Modus ponens**
- C. And-Introduction
- D. And-Elimination

Page 105

ok

Question No:134

(Marks:1)

Vu-Topper RM

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Backward chaining is more focused and tries to avoid exploring ___ path of reasoning.

- A. Different
- B. Searching
- C. Necessary

D. Unnecessary **Page 128**

Question No:135

(Marks:1)

Vu-Topper RM

“In context of Hill climbing algorithm, situation may arise when a step in one direction takes you lower, on the other hand when you step in some other direction it gives you no improvement.” The above statement refers to:

- A. Ridge problem** **Page 40**
- B. Slope problem
- C. Foothill problem
- D. Plateau problem

Question No:136

(Marks:1)

Vu-Topper RM

A Personal Consultant knowledge base contain information in the form of_.

- A. Rules** **Page 95**
- B. Facts
- C. errors
- D. Parameters

Question No:137

(Marks:1)

Vu-Topper RM

Variable rule is matched with known facts and different possibilities for the variables are tested, to determine the truth of the fact, such rules are also called as _____.

- A. Fuzzy rules
- B. Uncertain rules
- C. Directive rules

D. -matching rules **Page 96** **ok**

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Question No:138

(Marks:1)

Vu-Topper RM

Which of the following command is correct for adding numbers in CLIPS?

A. CLIPS>(3+4)

B. CLIPS>(34_)

C. CLIPS> (+ 3 4)

Page 133

D. CLIPS> (+ 34+)

Question No:139

(Marks:1)

Vu-Topper RM

“Focused area of expertise” in human experts is referred to as _____ in expert systems.

A. Domain

Page 116

B. Reasoning

C. Knowledge

D. Inference engine

Question No:140

(Marks:1)

Vu-Topper RM

The process continues recursively until a premise is found that is not supported by a rule. i.e. a premise is called a _____ if it cannot be concluded by any rule.

A. Antique

B. Primitive

Page 126

C. Elementary

D. All of the above

Question No:141

(Marks:1)

Vu-Topper RM

The Depth First Search traversal of a graph will result in?

A. Tree

Page 25

B. Array

C. Linked List

D. Graph with back edges

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Question No:142

(Marks:1)

Vu-Topper RM

Using deduction to reach a conclusion from a set of antecedents is called.

A. Forward chaining Page 123

- B. Backward chaining
- C. Backward propagation
- D. Forward propagation

Question No:143

(Marks:1)

Vu-Topper RM

_____ is branch and bound technique with the improvement of underestimates and dynamic programming.

A. A* Procedure Page 56

- B. Beam search
- C. Linear search
- D. Progressive deepening

Question No:144

(Marks:1)

Vu-Topper RM

In GA, the random process is repeated until an individual with required _____ level is found.

- A. Higher
- B. Lower
- C. Fitness Page 86**
- D. Logical

Question No:145

(Marks:1)

Vu-Topper RM

Which of the following is not the component of problem-solving?

- A. Operators
- B. Operations Page 17**
- C. Solution space
- D. Problem statement

Question No:146

(Marks:1)

Vu-Topper RM

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In ___ searches we are concerned with finding any one solution to our problem.

A. Shortest path

B. Non optimal

Page 24

C. Optimal path

D. Contrary path

Question No:147

(Marks:1)

Vu-Topper RM

How many types of graphs are there to use in problem-solving?

A. 1

B. 2 **Page 22**

C. 3

D. 4

Question No:148

(Marks:1)

Vu-Topper RM

Which of the following tells us about problem-solving, correct efficient memory, and information manipulation?

A. Intelligence **Page 6**

B. Deep learning

C. Deep learning

D. Machine learning

Question No:149

(Marks:1)

Vu-Topper RM

In _____ we may have multiple agents searching for solutions in the same solution space.

A. Depth first search

B. Adversarial Search

Page 62

C. Breadth first search

D. Progressive deepening

Question No:150

(Marks:1)

Vu-Topper RM

“The branch of computer science that is concerned with the automation of intelligent behavior” this definition of AI is from.

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A. Winston

B. Bellman

C. Luger and Subblefiled Page 8

D. Charniak and McDermott

Question No:151

(Marks:1)

Vu-Topper RM

Which of the following disciplines provides us with the theories of structure and meaning of language.

A. Biology

B. Linguistic Page 9

C. Philosophy

D. Psychology

Question No:152

(Marks:1)

Vu-Topper RM

Technically hit and trial approach is called as the "Generate and ___" approach.

A. Test Page 15

B. Modify

C. Consume

D. Regenerate

Question No:153

(Marks:1)

Vu-Topper RM

The plateau comes up when there is a mostly flat area__the peaks.

A. Over

B. Joining

C. Separating Page 40

D. None of the given

Question No:154

(Marks:1)

Vu-Topper RM

Best-first search always moves_from the node that seems closest to the goal node.

A. Left

B. Right

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C. Forward

Page 44

D. Backward

Question No:155

(Marks:1)

Vu-Topper RM

Another expert system named ___ was developed by Digital Equipment Corporation, as a computer configuration assistant.

A. MYCIN

B. Dendral

C. R1/XCON

Page 112

D. R3/XCON

Question No:156

(Marks:1)

Vu-Topper RM

Chaining is more focused and tries to avoid exploring unnecessary path of reasoning.

A. Forward

B. Backward

Page 128

C. None of the given

D. Both forward and backward

Question No:157

(Marks:1)

Vu-Topper RM

Procedures that search the solution space in an uninformed manner are usually costly with respect to ____.

A. Time

B. Space

C. Both Time and space

Page 37

D. None of the given

Question No:158

(Marks:1)

Vu-Topper RM

Inductive learning is based on the knowledge that if something happens a lot it is likely to be generally ___

A. True

Page 160

B. False

C. Ambiguous

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D. None of the given

Question No:159

(Marks:1)

Vu-Topper RM

Usually a _____graph is chosen to represent a fuzzy set.

A. Conical

B. Both

C. Triangular

Page 15

D. None of the given

Question No:160

(Marks:1)

Vu-Topper RM

Reasoning in fuzzy logic is just a matter of generalizing the familiar

A. Boolean

Page 147

B. Complex

C. Coognitive

D. Supervised

Question No:161

(Marks:1)

Vu-Topper RM

_____Reasoning is based on forming, or inducing a 'generalization' from a limited set of observations.

A. Inductive

Page 102

B. Deductive

C. Abductive

D. Analogical

Question No:162

(Marks:1)

Vu-Topper RM

_____is the process of deriving logical conclusions from given facts.

A. Planning

B. Execution

C. Reasoning

Page 102

D. Representation

Question No:163

(Marks:1)

Vu-Topper RM

Identify the correct step used to start design of an expert system.

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- A. Scope study
- B. Feasibility study** **Page 129**
- C. Rapid prototyping
- D. Problem reorganization

Question No:164 **(Marks:1)** **Vu-Topper RM**

If the antecedent is only partially true, then the output fuzzy set is truncated according to the__method

- A. Intrinsic
- B. Boolean
- C. Implication** **Page 153**
- D. None of the given

Question No:165 **(Marks:1)** **Vu-Topper RM**

Choose the fields in which Fuzzy inference systems have been successfully applied:

- A. Decision analysis
- B. All of the given** **Page 153**
- C. Automatic control
- D. Data classification

Question No:166 **(Marks:1)** **Vu-Topper RM**

The degree of truth that we have been talking about is specifically driven out by a function called the_function.

- A. Fuzzy
- B. Inline
- C. Ordinary
- D. Membership** **Page 149**

Question No:167 **(Marks:1)** **Vu-Topper RM**

Clips command for adding two numbers 3 and 4 is.

- A. CLIPS (+ 3 4)** **Page 133**
- B. CLIPS (3 4 +)

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- C. Both
- D. None of these

Question No:168 (Marks:1) **Vu-Topper RM**

Reasoning in forward chaining is known as:

- A. Rule-driven reasoning
- B. Goal-driven reasoning
- C. Data-driven reasoning Page 123**
- D. Intelligence-driven reasoning

Question No:169 (Marks:1) **Vu-Topper RM**

Identify the step involved in planning phase.

- A. Coding
- B. Resource allocation Page 129**
- C. Knowledge acquisition from expert
- D. Identify concrete knowledge element

Question No:170 (Marks:1) **Vu-Topper RM**

Identify the correct definition of linear model given below.

- A. A linear sequence of steps is applied repeatedly in an iterative fashion to develop the software models. Page 129**
- B. Non sequential sequence of steps is applied repeatedly in an iterative fashion to develop the expert systems.
- C. A non linear sequence of steps is applied repeatedly in an iterative fashion to develop the expert systems.

Question No:171 (Marks:1) **Vu-Topper RM**

A rule, which takes a set of inputs and gives advice, as a result, is called

- A. Directive Rule Page 96**
- B. Relation Rule
- C. Recommendation Rule
- D. None of the given options

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Question No:172

(Marks:1)

Vu-Topper RM

IF temperature is below 0 THEN weather is cold The above rule is used to represent _____

A. Directives

B. Relations

Page 96

C. Recommendations

D. None of the given options

Question No:173

(Marks:1)

Vu-Topper RM

Within an expert system, the _____ contains facts about a specific subject area and rules that express the reasoning procedures of an expert on the subject.

A. Inference logic

B. Knowledge base

Page 117

ok

C. Inference engine

D. Knowledge engineer

Question No:174

(Marks:1)

Vu-Topper RM

In some cases, the rules provide more definite actions such as “move left” or “close door”, in which case the rules are being used to represent.

A. Relations

B. Directives

Page 96

C. Recommendations

D. None of the given options

Question No:175

(Marks:1)

Vu-Topper RM

While solving a problem, how many states we already know?

A. 2

Page 23

B. 4

C. 6

D. 8

Question No:176

(Marks:1)

Vu-Topper RM

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Semantic networks are graphs, with nodes representing and arcs representing between objects.

A. Objects, distance

B. Objects, relationships Page 97

C. Relationships, distance

D. Distance, relationships

Question No:177

(Marks:1)

Vu-Topper RM

What is the correct order for solving a problem using GA

I. Choose the best individuals from the population for crossover

II. Choose initial population

III. Evaluate the fitness of each individual

A. I, II, III

B. I, III, II

C. II, I, III

D. II, III, I

Page 78

ok

Question No:178

(Marks:1)

Vu-Topper RM

In Depth First Search the node with the largest value of height will be at the priority to be picked.

A. Zero

B. Minimum

C. Maximum Page 28

D. Both Minimum and maximum

Question No:179

(Marks:1)

Vu-Topper RM

A proposition is the statement of a _____.

A. Fact Page 94

B. Action

C. Equation

D. Theorem

Question No:180

(Marks:1)

Vu-Topper RM

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According to Haugeland intelligence systems are__.

- A. Act like humans
- B. **Think like humans Page 7**
- C. Behave like humans
- D. Behave like an abnormal man

Question No:181

(Marks:1)

Vu-Topper RM

“Swimming in river is just like swimming in a pool”. The given statement is an example of:

- A. Logical reasoning
- B. **Analogical reasoning Page 103**
- C. Non-monotonic reasoning
- D. Inductive reasoning

Question No:182

(Marks:1)

Vu-Topper RM

In CLIPS, the__command is used for debugging programs.

- A. FACT
- B. CLEAR
- C. DEBUG
- D. **WATCH Page 135**

Question No:183

(Marks:1)

Vu-Topper RM

Crisp set is not a synonym for__

- A. **Fuzzy set Page 147**
- B. Classical set
- C. Both
- D. None of these

Question No:184

(Marks:1)

Vu-Topper RM

Which of the following is a valid example which represents a suitable antecedent in a rule?

- A. IF $x > 3$
- B. IF name is “Bob”
- C. IF weather is cold

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Question No:185

(Marks:1)

Vu-Topper RM

From discipline of _____ we have the tools and techniques to investigate the human mind and ways to represent the resulting theories.

A. Biology

B. Psychology Page 9

C. Mathematics

D. Computer Science

Question No:186

(Marks:1)

Vu-Topper RM

_____ AI treats the brain as a black box and just emulates its functionality.

A. Weak Page 8

B. Strong

C. Weak and Strong

D. Intermediate

Question No:187

(Marks:1)

Vu-Topper RM

$A \vee (B \wedge C) = \text{Note:}$

" \vee " represents OR operator

" \wedge " represents AND operator

A. $(A \vee B) \wedge (A \vee C)$ Page 108

ok

B. $(A \wedge B) \wedge (A \wedge C)$

C. $(A \vee B) \vee (A \vee C)$

D. $(A \vee C) \vee (A \vee B)$

Question No:188

(Marks:1)

Vu-Topper RM

For [5, 7] and the data points (1, 10) and (2, 13), then what will be the value of badness?

A. 10

B. 20 Page 79

ok

C. 30

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D. 40

Question No:189

(Marks:1)

Vu-Topper RM

Which of the following is not a search strategy?

A. Any path search

B. Leaf path search **Page 23**

C. Blind/uninformed search

D. Informed/heuristic search

Question No:190

(Marks:1)

Vu-Topper RM

According to Kurzweil intelligence systems are _____.

A. Act like humans **Page 7**

B. Think like humans

C. Behave like humans

D. Behave like an abnormal man

Question No:191

(Marks:1)

Vu-Topper RM

Where do the values of the alpha-beta search get updated?

A. At the end

B. Initial state itself

C. At the beginning

D. Along the path of search **Page 64**

Question No:192

(Marks:1)

Vu-Topper RM

Which particular generation of computers is associated with artificial intelligence?

A. Fifth **Page 12**

B. Third

C. Second

D. Fourth

Question No:193

(Marks:1)

Vu-Topper RM

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_____ is a genetic operator used to maintain genetic diversity from one generation of a population of genetic algorithm chromosomes to the next.

A. Gene

B. Mutation

Page 78

ok

C. Crossover

D. Inheritance

Question No:194

(Marks:1)

Vu-Topper RM

_____ can be as simple as just flipping a bit at random or any number of bits

A. Gene

B. Mutation

Page 79

C. Crossover

D. Inheritance

Question No:195

(Marks:1)

Vu-Topper RM

In progressive depending, the idea is to simply apply DFS to a specific.

A. Level

Page 32

B. Node

C. Branch

D. Branching factor

Question No:196

(Marks:1)

Vu-Topper RM

Line fitting problem using genetic algorithm, if the badness of any of the solution is _____. It means that given points lies on the line.

A. Zero

Page 79

B. One

C. Two

D. Three

Question No:197

(Marks:1)

Vu-Topper RM

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Resolution requires all sentences to be converted into a special form called:

A. 1st Normal form

B. Third Normal form

C. Conjunctive normal form (CNF)

Page 107

ok

D. De-normalized Normal form

Question No:198

(Marks:1)

Vu-Topper RM

In genetic algorithm, we produce the next generation from the_____.

A. Crossover

B. Mutation and genes

C. Genes and inheritance

D. Inheritance and mutation

Page 77

Question No:199

(Marks:1)

Vu-Topper RM

What are the components of a rule?

A. If and Else

B. Else and Then

C. Then and Break

D. Premise and Conclusion

Page 95

Question No:200

(Marks:1)

Vu-Topper RM

A "circle" symbol in a tree structure is called:

A. Edge

B. Node

Page 2

C. Ancestor

D. Descendant

Question No:201

(Marks:1)

Vu-Topper RM

A search algorithm takes_ as an input and returns_ as an output.

A. Input, output

B. Solution, problem

C. Problem, solution

Chapter 2

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D. Fuzzy set, uncertain facts

Question No:202

(Marks:1)

Vu-Topper RM

One of the advantages of breadth first search is that it

- A. Memory Constraints
- B. Can work with broken edges
- C. Has a small space requirement

D. Guarantees finding the shallowest path even in presence of infinite paths **Page 32**

Question No:203

(Marks:1)

Vu-Topper RM

Which expert system was design for chemical analysis of Martian soil for space mission?

- A. Dendral
- B. MYCIN
- C. R1/XCON
- D. PXDES

Page 112

ok

Question No:204

(Marks:1)

Vu-Topper RM

Branch and bound is a _____.

- A. Type of tree
- B. Data structure
- C. Sorting algorithm

D. Problem-solving technique

Page 2

Question No:205

(Marks:1)

Vu-Topper RM

Which of the following is not the application area of intelligence?

- A. Robotics
- B. Expert system
- C. Computer vision

D. Human computer interaction

Page 13

Question No:206

(Marks:1)

Vu-Topper RM

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_____ logic lets us define more realistically the true functions that define

A. Fuzzy Page 148

- B. real world
- C. Classical
- D. Boolean
- E. None of the given

Question No:207

(Marks:1)

Vu-Topper RM

What is the fitness value of the following sequence 4 6 8 2 7 1 3 5 in eight queen problem?

- A. 6
- B. 7
- C. 8 Page 86**
- D. 9

Question No:208

(Marks:1)

Vu-Topper RM

Which one is not the application area of expert system?

- A. Diagnosis
- B. Prescription
- C. Interpretation
- D. None of these Page 114**

Question No:209

(Marks:1)

Vu-Topper RM

An expert system is different from conventional programs in the sense that program control and knowledge are_.

- A. Separate Page 121**
- B. Defined
- C. Together
- D. Common

Question No:210

(Marks:1)

Vu-Topper RM

Which one of the following is involved in an ES development project:

- A. The end user

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- B. The domain expert
- C. The knowledge engineer

D. All of the given Page 122

Question No:211

(Marks:1)

Vu-Topper RM

“A computer program designed to model the problem solving ability of a human expert” is known as ---

A. Echo System

B. Expert system

Page 111

C. Energy System

D. Intelligent System

Question No:212

(Marks:1)

Vu-Topper RM

A ----- is ‘A person who posses the skill and knowledge to solve a specific problem in a manner superior to others’

A. The end user

B. All of the given

C. The domain expert

Page 122

D. The knowledge engineer

Question No:213

(Marks:1)

Vu-Topper RM

Conventional programming focuses on __, while ES programming focuses on

A. Problem, Expert

B. Solution, Expert

C. Solution, Problem Page 122

D. Problem, Solution

Question No:214

(Marks:1)

Vu-Topper RM

An AI system has a component that allows the system to get information from its environment.

A. Planning

B. Learning

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C. Execution

D. Perception Page 89

Question No:215

(Marks:1)

Vu-Topper RM

In the worst case of semantic network, we may need to traverse the entire network and then discover that the requested info _____

- A. Exists
- B. Is correct
- C. Is incorrect

D. Does not exist Page 97

Question No:216

(Marks:1)

Vu-Topper RM

An AI system must form a meaningful and useful _____ of the internal information.

- A. Planning
- B. Learning
- C. Execution

D. Representation Page 89

Question No:217

(Marks:1)

Vu-Topper RM

Breadth-first search is a good idea when you are confident that the branching factor is _____

- A. Small** Google
- B. Large
- C. Medium
- D. Extremely small

Question No:218

(Marks:1)

Vu-Topper RM

Progressive deepening guarantees to find the solution at a minimum

- A. DFS
- B. BFS** Page 37
- C. None
- D. Depth like

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Question No:219

(Marks:1)

Vu-Topper RM

In Adversarial search the goals of the adversaries are usually ____ to each other

- A. Same
- B. None

C. Contrary

Page 62

- D. Different

Question No:220

(Marks:1)

Vu-Topper RM

Semantic networks are computationally expensive at ____

A. Runtime

Page 97

- B. End Time
- C. Start Time
- D. Compile Time

Question No:221

(Marks:1)

Vu-Topper RM

Searching is a formal mechanism to explore

- A. Best
- B. Fitness
- C. Recursive

D. Alternatives

Page 21

Question No:222

(Marks:1)

Vu-Topper RM

Hill Climbing is basically a ----- with a measure of quality that is assigned to each node in the tree.

- A. Best First Search
- B. Beam Search

C. Depth First Search

Page 39

- D. Breadth First Search

Question No:223

(Marks:1)

Vu-Topper RM

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The Data structure used in the standard implementation of Breadth-First Search is?

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

Google

Question No:224

(Marks:1)

Vu-Topper RM

The Data structure used in the standard implementation of Depth-First Search is?

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

Google

Question No:225

(Marks:1)

Vu-Topper RM

Which searching technique gives us a better solution every time.

- A. Optimal path
- B. Path/non-optimal
- C. Blind/uninformed

D. Informed/heuristic

Page 24

Question No:226

(Marks:1)

Vu-Topper RM

Are closely coupled components; each is intrinsically tied to the other.

Knowledge representation

Reasoning

Planning

Execution

A. i & ii

Page 89

B. ii & iii

C. ii & iii

D. iii & iv

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Question No:227

(Marks:1)

Vu-Topper RM

By getting grips on that deal with searching techniques in graphs and trees, problem solving can be performed in an efficient manner.

- A. Charts
- B. Graphs
- C. Algorithms**
- D. Pseudocode

Page 21

Question No:228

(Marks:1)

Vu-Topper RM

In Breadth First Search the node with the largest value of height will be at the priority to be picked.

- A. Minimum
- B. Maximum**
- C. Both
- D. None of the given

Page 28

Question No:229

(Marks:1)

Vu-Topper RM

The Plateau problem comes up when there is a mostly flat area _ the peaks.

- A. Over
- B. Joining
- C. Separating**
- D. None of the given

Question No:230

(Marks:1)

Vu-Topper RM

The paths found by best-first search are likely to be _____ than those found with other methods.

- A. Longer
- B. Both
- C. Shorter**
- D. None of these

Question No:231

(Marks:1)

Vu-Topper RM

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In Basic Genetic Algorithm the term mutation refers to a small random _____.

A. Change Page 77

B. Operator

C. Number

D. Operand

Question No:232

(Marks:1)

Vu-Topper RM

From discipline _____ we have information about the network structure of a human brain and all the theories on functionalities of different human organs.

A. Biology Page 9

B. Psychology

C. Mathematics

D. Computer Science

Question No:233

(Marks:1)

Vu-Topper RM

Try to catch out own thoughts as they go by is

A. Psychology

B. Introspection Page 8

C. Both of above

D. None of the above

Question No:234

(Marks:1)

Vu-Topper RM

Classical way of problem solving

A. GA

B. Test

C. None

D. Generate and Test Page 15

Question No:235

(Marks:1)

Vu-Topper RM

Answering the Sequence Problem need

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A. Intelligence Page 5

- B. Ability to schedule
- C. None of the given
- D. Ability to make plan

Question No:236

(Marks:1)

Vu-Topper RM

In the statement "IF A THEN B", B is called

A. Antecedent

B. Consequent Page 95

- C. Both
- D. None of these

Question No:237

(Marks:1)

Vu-Topper RM

Rule, which may have a priority in expert systems, is called

A. Meta rule

B. backward chain rule

C. Forward chain rule Page 123

D. Conflict resolution rule

Question No:238

(Marks:1)

Vu-Topper RM

What will be the conjunctive normal of $(A \rightarrow B) \rightarrow B$?

A. $(A \vee B)$ Page 110

B. $(\sim A \vee B)$

C. $(A \vee \sim B)$

D. $(A \text{ AND } B)$

Question No:239

(Marks:1)

Vu-Topper RM

Eight queen problem illustrates that placement of 8 queens on a chess board so that none of them can attack the other.

A. Breed

B. Attack Page 82

C. Mutate

D. Generate

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Question No:240

(Marks:1)

Vu-Topper RM

Which value is assigned to alpha and beta in the alpha-beta pruning?

A. Alpha = max

B. Beta = min

C. Both Alpha = max & Beta = min

Page 65

D. Alpha = max

Question No:241

(Marks:1)

Vu-Topper RM

Which search method takes less memory?

A. Optimal Search

B. Linear Search

C. Depth-First Search

Page 25

D. Breadth-First Search

Question No:242

(Marks:1)

Vu-Topper RM

The components of a statement in CNF (Conjunctive normal form) are clauses and literals. And clause in CNF is the _____ of many units.

A. Separation

B. Subtraction

C. Disjunction

Page 108

ok

D. Conjunction

Question No:243

(Marks:1)

Vu-Topper RM

Which of the following best represents the fuzzy logic?

A. A method of question that resembles human answer.

B. A method of reasoning that resembles human reasoning.

C. A method of giving an answer that resembles human answer.

D. A method that resembles with problem solving technique.

Question No:244

(Marks:1)

Vu-Topper RM

Genetic Algorithm is a _____ in which multiple search paths are followed in parallel.

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- A. Data structure
- B. Type of tree
- C. Search method**
- D. Sorting algorithm

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ok

Question No:245

(Marks:1)

Vu-Topper RM

In ___ reasoning the conclusion derived may be wrong.

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

Page 103

Question No:246

(Marks:1)

Vu-Topper RM

Trying to catch out own thoughts as they go by

- A. Introspection**
- B. Theoretical experiment
- C. Psychological experiments
- D. Introspection and Psychological experiments

Page 8

Question No:247

(Marks:1)

Vu-Topper RM

Which values are independent in the minimax search algorithm?

- A. Non pruned leaves
- B. Root is independent
- C. Pruned leaves x and y**
- D. Each state are dependent

Google

Question No:248

(Marks:1)

Vu-Topper RM

We can get _____ solution given some parameters using Genetic Algorithm.

- A. Formal
- B. Optimal**
- C. Complex
- D. Structured

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Question No:249

(Marks:1)

Vu-Topper RM

Which of the following is/are considered being trait(s) of an expert?

- A. They possess experience the given area
- B. They possess specialized knowledge in certain area
- C. They can provide, upon elicitation, an explanation of their decisions

D. All of the given options

Page 111

Question No:250

(Marks:1)

Vu-Topper RM

The domain of intelligence in which machines that act intelligently and they have real conscious minds is called _____.

- A. Weak AI
- B. Strong AI
- C. Both
- D. None of the above

Page 8

Question No:251

(Marks:1)

Vu-Topper RM

MYCIN was an important system in the history of AI because it demonstrated that expert systems could be used for solving practical problems for_____.

- A. Lawyers
- B. Students
- C. Engineers

D. Physicians

Page 112

ok

Question No:252

(Marks:1)

Vu-Topper RM

At an early stage, a problem in search space is defined by one of these states.

- A. Last state
- B. Initial state
- C. Intermediate state
- D. All of the mentioned

Google

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Question No:253

(Marks:1)

Vu-Topper RM

In the min max procedure, the player hoping for the positive numbers is called _____.

- A. Analyzer
- B. Minimizer
- C. Maximizer**
- D. Researcher

Page 63

Question No:254

(Marks:1)

Vu-Topper RM

The expression 'the cat drove the car' is _____ correct, but _____ non-sensible.

- A. Logically, inductively
- B. Deductively, inductively
- C. Syntactically, semantically**
- D. Monotonically, non-monotonically

Page 106

ok

Question No:255

(Marks:1)

Vu-Topper RM

Which of the following is the name of the algorithm that evolves the concept of our genes?

- A. Statistical algorithm
- B. Genetic algorithms**
- C. Searching algorithm
- D. Conventional algorithm

Page 76

Question No:256

(Marks:1)

Vu-Topper RM

In intelligence to solve the trivial problems we use _____ approach.

- A. Hit and trial**
- B. Trial and error
- C. Divide and conquer
- D. Dynamic programming

Page 15

Question No:257

(Marks:1)

Vu-Topper RM

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The ability of a computer program or a machine to think and learn is called?

- A. Fuzzy logic
- B. Deep learning
- C. Machine learning
- D. Artificial Intelligence**

Question No:258 (Marks:1) **Vu-Topper RM**

Breadth-First Search checks all paths of a given length before moving on to any longer paths.

True

False

Question No:259 (Marks:1) **Vu-Topper RM**

Genetic algorithms use ____

Parallel approach

Sequential approach

Question No:260 (Marks:1) **Vu-Topper RM**

To infer new information from semantic networks, we can ask questions from nodes.

True

Page 97

False

Question No:261 (Marks:1) **Vu-Topper RM**

Every graph can be converted into a _____.

A. Tree **Page 22**

B. Problem

C. Statement

D. Repeated cycle

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True

Page 22

False

Question No:262

(Marks:1)

Vu-Topper RM

Genetic algorithm uses evolutionary techniques, based on function optimization and artificial intelligence, to develop a solution.

True

False

Question No:263

(Marks:1)

Vu-Topper RM

An expert system may replace the expert or assist the expert

True

Page 113

False

Question No:264

(Marks:1)

Vu-Topper RM

What is the form of Fuzzy logic?

One-valued logic

Many-valued logic

Question No:265

(Marks:1)

Vu-Topper RM

In Artificial Intelligence GA stands for Genetic Algorithms

True

Page 77

False

Question No:266

(Marks:1)

Vu-Topper RM

In general, the antecedent of a rule compares an object with a possible value, using an operator.

True

False

Question No:267

(Marks:1)

Vu-Topper RM

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The room temperature is hot. Here the hot (use of linguistic variable is used) can be represented by _____

Fuzzy set

Logic set

Question No:268

(Marks:1)

Vu-Topper RM

Fuzzy logic is actually a superset of conventional Boolean logic

True Page 150

False

Question No:269

(Marks:1)

Vu-Topper RM

A classical set is a container, which wholly includes or wholly excludes any given element.

True Page 145

False

Question No:270

(Marks:1)

Vu-Topper RM

The values of the set membership is represented by _____

Set Table

Degree of truth

Question No:271

(Marks:1)

Vu-Topper RM

It was Aristotle who came up with the 'Law of the Excluded Middle'.

True Page 145

False

Question No:272

(Marks:1)

Vu-Topper RM

We can get optimal solution given some parameters using Genetic Algorithm.

True Page 79

False

Question No:273

(Marks:1)

Vu-Topper RM

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The simple idea behind ___ is that if we can reach a specific node through more than one different paths then we shall take the path with the minimum cost

Estimates

Dynamic programming

Question No:274

(Marks:1)

Vu-Topper RM

Assisting an expert is the most commonly found role of an Expert System.

False

True Page 114

Question No:275

(Marks:1)

Vu-Topper RM

Frames were developed from semantic networks and later evolved into our modern-day Classes and Objects.

True Page 98

False

Question No:276

(Marks:1)

Vu-Topper RM

Variation in the offspring's(children) of the individuals are due to

_____.

- A. Mutation
- B. Crossover
- C. Inheritance

D. Both mutation and inheritance

Question No:277

(Marks:1)

Vu-Topper RM

In CLIPS, the WATCH command is used for debugging programs.

True Page 135

False

Question No:278

(Marks:1)

Vu-Topper RM

We use graphs to represent problems and their solution spaces.

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True

Page 22

False

Question No:279

(Marks:1)

Vu-Topper RM

General stages of ESDLC includes.

Beta system

Page 129

Logic system

Question No:280

(Marks:1)

Vu-Topper RM

Deductive Reasoning is based on deducing old information from logically related unknown information.

False

Page 102

True

Question No:281

(Marks:1)

Vu-Topper RM

Progressive deepening emulates BFS using DFS

True

Page 32

False

Question No:282

(Marks:1)

Vu-Topper RM

In Candidate-Elimination algorithm version space is represented by two sets named:

G and S

T and F

Question No:283

(Marks:1)

Vu-Topper RM

Mutation can be as simple as just flipping a bit at random or any number of bits.

True

Page 79

False

Question No:284

(Marks:1)

Vu-Topper RM

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Identify the sets in which Membership Function is used.

Fuzzy set

Logic set

Question No:285

(Marks:1)

Vu-Topper RM

Fuzzy logic is extension of Crisp set with an extension of handling the concept of Partial Truth.

True

False

Question No:286

(Marks:1)

Vu-Topper RM

Outputs of learning are determined by the _____

Software

Application

Page 161

Question No:287

(Marks:1)

Vu-Topper RM

Traditional set theory is also known as Crisp Set theory.

True

False

Question No:288

(Marks:1)

Vu-Topper RM

_____ is the process of formulating the mapping from a given input to an output using Fuzzy logic.

Logic inference system

Fuzzy inference system

Page 153

Question No:289

(Marks:1)

Vu-Topper RM

Japanese were the first to utilize fuzzy logic practically on high-speed trains in Sendai.

True

False

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Question No:290

(Marks:1)

Vu-Topper RM

Inductive learning takes examples and generalizes rather than starting with _____ knowledge

Existing Page 162

Currenting

Question No:291

(Marks:1)

Vu-Topper RM

Which of the following are the main phrases of the linear sequence?

All of the above

Question No:292

(Marks:1)

Vu-Topper RM

Fuzzy logic is usually represented as _____

IF-THEN rules

Question No:293

(Marks:1)

Vu-Topper RM

Best first search is a greedy approach.

True Page 47

False

Question No:294

(Marks:1)

Vu-Topper RM

Relationships between objects and concepts represent which type of knowledge?

A. Meta

B. Heuristic

C. Structure

Google

ok

D. Declarative

Question No:295

(Marks:1)

Vu-Topper RM

Hill Climbing is basically a _____ search with a measure of quality that is assigned to each node in the tree.

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A. Depth first

Page 39

B. Uninformed

C. Breadth first

D. Progressive deepening

Question No:296

(Marks:1)

Vu-Topper RM

A knowledge structure that relates some known information to other information that can be concluded or inferred to be true is represented as _____.

A. Role

Page 95

B. Value

C. Object

D. Attribute

Question No:297

(Marks:1)

Vu-Topper RM

Identify the TRUE statement regarding “Heuristics”:

A. Both “heuristic” and “algorithm” are same thing.

B. Heuristics never give us good guess to reach to goal state.

C. Heuristics always give us good guess to reach to goal state.

D. Heuristics don't always give us good guess to reach to goal state. Page 37

Graphs are used to represent _____ and _____.

Problem, solution

In Depth-First Search, how many times a node is visited?

A. Once

B. Twice

C. Thrice

D. Equivalent to number of indegree of the node

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A computer vision technique that relies on image templates is

_____.
pose estimation

The ability to think, plan and schedule demonstrate

- _____.
- A. Fuzzy logic
 - B. Intelligence Page 6**
 - C. Problem solving
 - D. Defining the problem

From discipline of _____ we have information about the network structure of a human brain and all the theories on functionalities of different human organs.

- A. Biology Page 9**
- B. Psychology
- C. Mathematics
- D. Computer Science

The domain of intelligence in which machines can be made to act as if they are intelligent is called _____.

- A. Weak AI Page 9**
- B. Strong AI
- C. Intermediate AI
- D. Strong AI & weak AI

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