



# CS-607 Artificial Intelligence Update MCQS For Mid Term Solve By Vu Topper RM



**80 To 100% Marks**



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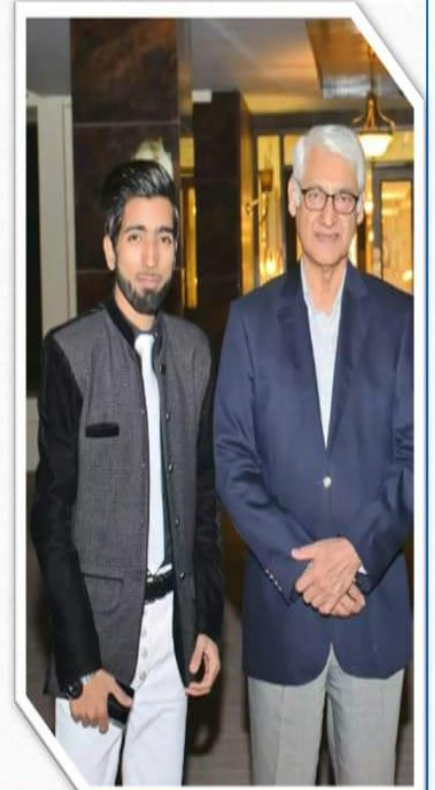
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**Question No:1**

**(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**

**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
- B. Abductive reasoning

**C. Deductive reasoning**

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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**

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 \_\_\_\_\_.

A. Parameters

B. Knowledge base

**C. Solution spaces Page 22**

D. Nodes and vertices

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**Question No:9**

**(Marks:1)**

**Vu-Topper RM**

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

**A. Metaknowledge**

**Page 90**

B. Fuzzy knowledge

C. Uncertain knowledge

D. Declarative knowledge

**Question No:10**

**(Marks:1)**

**Vu-Topper RM**

The ability to learn and recognize things automatically called?

A. Fuzzy logic

**B. Intelligence** **Page 6**

C. Problem solving

D. Defining the problem

**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** **Page 21**

D. Demo

**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 as:

**A. Modus tolens**

**Page 105**

B. Modus ponens

C. And-Elimination

D. And-Introduction

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**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**
- D. State-space search

**Page 63**

**Question No:14**

**(Marks:1)**

**Vu-Topper RM**

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

- A. Reasoning**
- B. Learning and planning
- C. Learning and execution
- D. Perception and planning

**Page 89**

**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**
- D. None of the mentioned

**Page 39**

**Question No:16**

**(Marks:1)**

**Vu-Topper RM**

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

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**C. Eight, eight**

**Page 82**

D. Eight, seven

**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**

**Page 48**

C. Breadth first method

D. Progressive deepening

**Question No:18**

**(Marks:1)**

**Vu-Topper RM**

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

**A. Syntax**

**Page 104**

B. Operator

C. Behavior

D. Semantics

**Question No:19**

**(Marks:1)**

**Vu-Topper RM**

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

**A. Brain functions**

**Page 14**

B. Human body works

C. Introspection of mind

D. Psychological experiment

**Question No:20**

**(Marks:1)**

**Vu-Topper RM**

“In a context of Hill climbing algorithm, a person may reach the portion of a mountain which is totally flat, whatever step he takes gives

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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 were 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**

**Page 113**

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 function 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.  $A \wedge \sim B$

**Page 118**

**Question No:27**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ can be viewed as the processor in an expert system.

- A. System memory
- B. Knowledge base
- C. Inference engine**
- D. Working memory

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**Question No:28**

**(Marks:1)**

**Vu-Topper RM**

General games involve \_\_\_\_\_.

- A. Multi-agent
- B. Single-agent
- C. Only single-agent and multi-agent**
- D. Neither single-agent nor multi-agent

**Page 62**

**Question No:29**

**(Marks:1)**

**Vu-Topper RM**

Adversarial search problems uses.

- A. Competitive environment**
- B. Cooperative environment
- C. Neither competitive nor cooperative environment
- D. An only competitive and cooperative environment

**Page 62**

**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**
- B. A<-> B
- C. B<-> A
- D. A <- B

**Page 99**

**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"**
- B. Parent of node "A"
- C. Fan-out of node "A"
- D. Branching node "A"

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**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**
- 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 ejects/entities to be incorporated.

A. Pictures

**B. Relationships**

**Page 92**

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.

A. Estimates

B. Beam search

C. Progressive deepening

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**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**

**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**

**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.  $\exists$
- C.  $\oplus$
- D. #

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**Question No:44**

**(Marks:1)**

**Vu-Topper RM**

In CLIPS, the Defrule construct is used to add

- A. Facts
- B. Rules**
- C. Agenda
- D. Principles

**Page 135**

**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**
- 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

**Page 111**

**Question No:46**

**(Marks:1)**

**Vu-Topper RM**

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

- A. XOR**
- B. Mycin
- C. Dendral
- D. R1/XCON

**Page 112**

**Question No:47**

**(Marks:1)**

**Vu-Topper RM**

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

- A. Meta rules**
- 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**

**Page 47**

B. Heuristic

C. Combinatorial

D. Divide and Conquer

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**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**

**Question No:53**

**(Marks:1)**

**Vu-Topper RM**

Can we precisely define Artificial Intelligence?

A. Yes We Can

**B. No we cannot**

**Page 14**

C. Both

D. None

**Question No:54**

**(Marks:1)**

**Vu-Topper RM**

The ability to think, plan and schedule demonstrate \_\_\_\_\_.

**A. Intelligence**

**Page 5**

B. Deep learning

C. Problem-solving

D. Machine learning

**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**

**Page 126**

D. None

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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** **Page 105**

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**Question No:60**

**(Marks:1)**

**Vu-Topper RM**

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

**A.  $\forall$  Page 100**

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 searches 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.** **Page 107**
- 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 \_\_\_ initial population

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

**D. Evaluation function** **Page 78**

**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** **Page 129**

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

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C. Common-sense reasoning

**D. Non-Monotonic 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**

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

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- B. DFS
- 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**

**Page 127**

- 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**

**Page 102**

- 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**

**Page 94**

- C. Methods

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D. Proposition

**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**

**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

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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 Affirmation knowledge

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

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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**

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

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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**

**Page113**

- B. Low
- C. Medium
- D. Average

**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**

**Page 77**

- C. A\*, Dynamic programming
- D. Subtraction, multiplication

**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.**

**Page 24**

- D. If node picked from priority queue is goal node, then return.

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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**

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**Question No:101**

**(Marks:1)**

**Vu-Topper RM**

“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**
- C. Lower limit
- D. Middle limit

**Page 86**

**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**
- D. COBOL Language Integrated Production System

**Page 133**

**Question No:104**

**(Marks:1)**

**Vu-Topper RM**

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

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

**Page 17**

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**Question No:105**

**(Marks:1)**

**Vu-Topper RM**

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** **Page 116**
- B. User interface
- C. Inference engine
- D. Knowledge-base

**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** **Page 37**
- C. Uninformed
- D. Progressive deepening

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**Question No:109**

**(Marks:1)**

**Vu-Topper RM**

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

- 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 or 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**

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**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

**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”.

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**A. Reasoning**

**Page 102**

B. Refutation

C. Conversion

D. Object-attribute-value triplet

**Question No:117**

**(Marks:1)**

**Vu-Topper RM**

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. 7<sup>th</sup> row and 6<sup>th</sup> column

B. 2<sup>nd</sup> row and 1<sup>st</sup> column

**C. 4<sup>th</sup> row and 5<sup>th</sup> column**

**Page 83**

D. 3<sup>rd</sup> row and 2<sup>th</sup> 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

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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?

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

Page 123

**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**
- D. Sixth, second

Page 83

**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

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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**

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.

A. Meta

B. Semantic

**C. Heuristic**

**Page 90**

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

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**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

**Question No:130**

**(Marks:1)**

**Vu-Topper RM**

Every graph can be converted into a tree, by replacing the\_.

A. Edges

**B. Nodes**

**Page 22**

C. Branches

D. Terminals

**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**

**Page 10**

D. 1957

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**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**

**Page 105**

C. And-Introduction

D. And-Elimination

**Question No:134**

**(Marks:1)**

**Vu-Topper RM**

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

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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. Pattern-matching rules**

**Page 96**

**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

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**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

**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

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**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**

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

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**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**
- C. Breadth first search
- D. Progressive deepening

**Page 62**

**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.

- A. Winston
- B. Bellman
- C. Luger and Subblefiled**
- D. Charniak and McDermott

**Page 8**

**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**
- C. Philosophy
- D. Psychology

**Page 9**

**Question No:152**

**(Marks:1)**

**Vu-Topper RM**

Technically hit and trial approach is called as the “Generate and \_\_\_” approach.

- A. Test**
- B. Modify
- C. Consume
- D. Regenerate

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**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

**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

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**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

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

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**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.

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

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**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 +)

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

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**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

**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

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**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**

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**

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

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**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**

**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**

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

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**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**
- C. Non-monotonic reasoning
- D. Inductive reasoning

**Page 103**

**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**
- B. Classical set
- C. Both
- D. None of these

**Page 147**

**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

**D. All of the given options**

**Page 95**

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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**

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**

C. 30

D. 40

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**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

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**Question No:193**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_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**
- C. Crossover
- D. Inheritance

**Page 78**

**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**
- C. Crossover
- D. Inheritance

**Page 79**

**Question No:195**

**(Marks:1)**

**Vu-Topper RM**

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

- A. Level**
- B. Node
- C. Branch
- D. Branching factor

**Page 32**

**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**
- B. One
- C. Two
- D. Three

**Page 79**

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**Question No:197**

**(Marks:1)**

**Vu-Topper RM**

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

A. 1<sup>st</sup> Normal form

B. Third Normal form

**C. Conjunctive normal form (CNF)**

**Page 107**

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

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B. Solution, problem

**C. Problem, solution Chapter 2**

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**

**Page 112**

B. MYCIN

C. R1/XCON

D. PXDES

**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

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**Question No:206**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ 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

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**Question No:210**

**(Marks:1)**

**Vu-Topper RM**

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

- A. The end user
- 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**
- C. Energy System
- D. Intelligent System

**Page 111**

**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

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**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
- 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

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**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

**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.

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- A. Best First Search
- B. Beam Search
- C. Depth First Search**
- D. Breadth First Search

**Page 39**

**Question No:223**

**(Marks:1)**

**Vu-Topper RM**

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

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Planning  
Execution

- A. i & ii
- B. ii & iii
- C. ii & iii
- D. iii & iv

Page 89

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

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**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**

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

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**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

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

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- 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 the other.

- A. Breed
- B. Attack**      **Page 82**
- C. Mutate
- D. Generate

**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**
- D. Alpha = max

**Page 65**

**Question No:241**

**(Marks:1)**

**Vu-Topper RM**

Which search method takes less memory?

- A. Optimal Search
- B. Linear Search
- C. Depth-First Search**
- D. Breadth-First Search

**Page 25**

**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**
- D. Conjunction

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**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.

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

**Page 77**

**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

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B. Root is independent

**C. Pruned leaves x and y** **Google**

D. Each state are dependent

**Question No:248**

**(Marks:1)**

**Vu-Topper RM**

We can get\_\_\_\_\_ solution given some parameters using Genetic Algorithm.

A. Formal

**B. Optimal** **Page 205**

C. Complex

D. Structured

**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** **Page 8**

C. Both

D. None of the above

**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\_.

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- A. Lawers
- B. Students
- C. Engineers
- D. Physicians**

**Page 112**

**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**

**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**

**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?

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- A. Statistical algorithm
- B. Genetic algorithms Page 76**
- C. Searching algorithm
- D. Conventional algorithm

**Question No:256** (Marks:1) **Vu-Topper RM**

In intelligence to solve the trivial problems we use \_\_\_\_\_ approach a.

- A. Hit and trial Page 15**
- B. Trial and error
- C. Divide and conquer
- D. Dynamic programming

**Question No:257** (Marks:1) **Vu-Topper RM**

Best first search is a greedy approach.

**True Page 47**

False

**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**

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False

**Question No:261**

**(Marks:1)**

**Vu-Topper RM**

Every graph can be converted into a tree

**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**

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False

**Question No:267**

**(Marks:1)**

**Vu-Topper RM**

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.

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**True**

**Page 79**

False

**Question No:273**

**(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

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\_\_\_.

None of these

**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

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**Question No:278**

**(Marks:1)**

**Vu-Topper RM**

We use graphs to represent problems and their solution spaces.

**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

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**Question No:284**

**(Marks:1)**

**Vu-Topper RM**

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.

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**True**

False

**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**

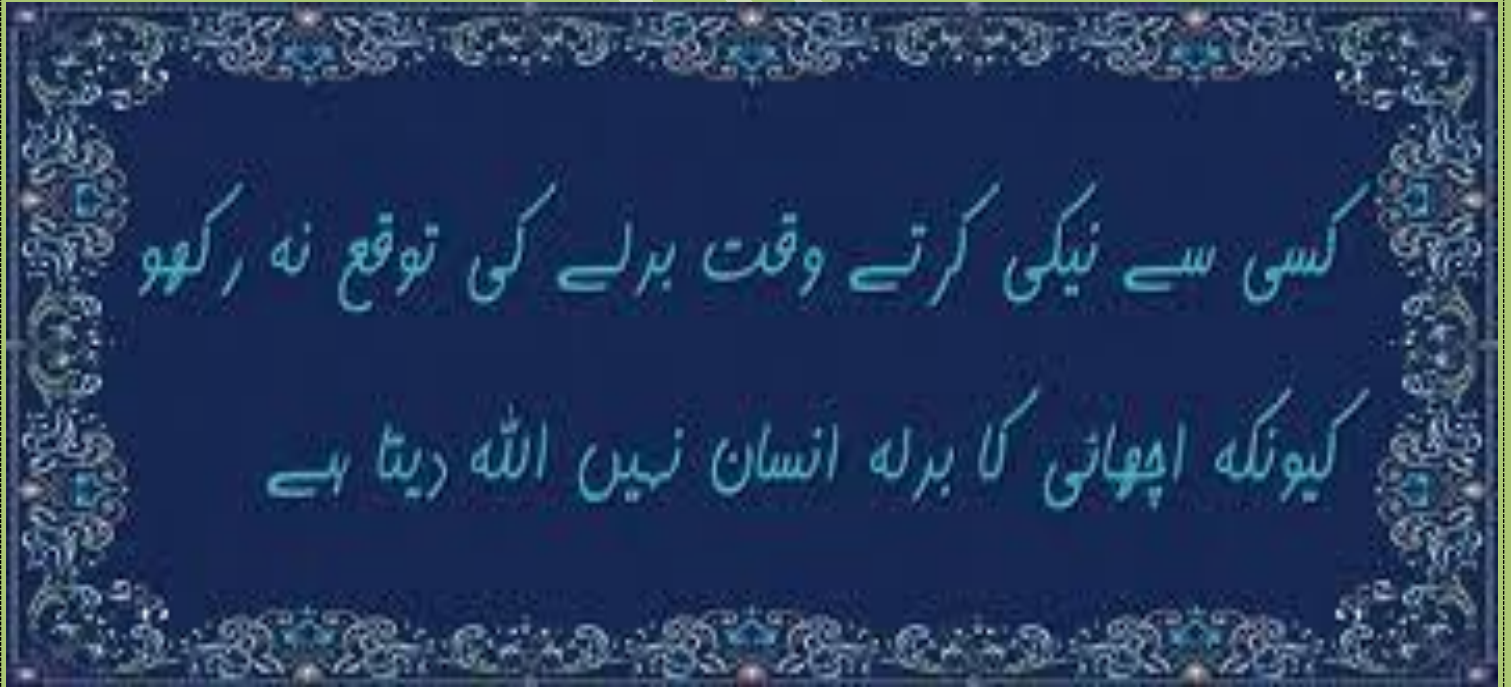
**Question No:292**

**(Marks:1)**

**Vu-Topper RM**

Fuzzy logic is usually represented as \_\_\_\_\_

**IF-THEN rules**



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