

Professional Online Academy Vu Topper RM



CS607-Artificial Intelligence Update MCQ'S Final Term By Vu Topper RM



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Question No:1

(Marks:1)

Vu-Topper RM

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

A. Existing

Page 162

B. Inductive

C. Deductive

D. None of the given

Question No:2

(Marks:1)

Vu-Topper RM

In context of CLIPS, "agenda" is the list of _____

A. Activated relations

B. Activated rules

Page 136

C. Deactivated rules

D. Activated DE templates

Question No:3

(Marks:1)

Vu-Topper RM

Knowledge acquisition techniques may not include:

A. Surveys

Page 130

B. Interviews

C. On-site observation

D. Electronic brainstorming

Question No:4

(Marks:1)

Vu-Topper RM

In context of ES development, which of the following will be part of Planning phase?

A. Coding

B. Design.

C. Feasibility assessment

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D. Knowledge acquisition from expert

Question No:5

(Marks:1)

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_____ is the process by which the fuzzy sets that represent the outputs of each rule are combined into a single fuzzy set.

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A. Aggregation

Page 157

B. Fuzzification

C. Implication

D. None of these

Question No:6

(Marks:1)

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_____ encode the knowledge of rules and strategies.

A. Inference networks

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B. ES requirements

C. ES model

D. Knowledge base

Question No:7

(Marks:1)

Vu-Topper RM

The role of tester is often called the _____ role.

A. Soft

B. Real

C. Critical

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D. Sophisticated

Question No:8

(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. Implication

Page 153

C. Boolean

D. None of these

Question No:9

(Marks:1)

Vu-Topper RM

Identify the correct definition of linear model given below.

A. A nonlinear sequence of steps is applied repeatedly in an iterative fashion to develop the expert systems.

B. A non-sequential set of steps is applied repeatedly in an iterative fashion to develop the expert systems.

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C. A linear sequence of steps is applied repeatedly in an iterative fashion to develop the expert systems. Page 129

D. An arbitrary set of steps is applied repeatedly in an iterative fashion to develop the software model.

Question No:10

(Marks:1)

Vu-Topper RM

Identify which statement defines classical sets in a best way:

A. A classical set is a container, which wholly includes but not wholly excludes any given element.

B. A classical set is a container, which does not wholly include or wholly exclude any given element.

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

D. A classical set is a container, which wholly includes or wholly excludes any given element. Page 145

Question No:11

(Marks:1)

Vu-Topper RM

In Fuzzy Inputs we resolve all fuzzy statements in the antecedent to a degree of membership between 0 and ____ .

A. 1 Page 152

B. 2

C. 3

D. 4

Question No:12

(Marks:1)

Vu-Topper RM

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

A. FIZ

B. FIS Page 153

C. FOS

D. None

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Question No:13

(Marks:1)

Vu-Topper RM

_____ is a prerequisite for any mature program of artificial intelligence.

- A. Common Sense
- B. Deep Learning
- C. Machine learning**
- D. General Intelligence

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Question No:14

(Marks:1)

Vu-Topper RM

In fuzzy set and membership function , the input is always a _____ value.

- A. Fixed
- B. Amounts
- C. Interval Based
- D. Crisp Numerical**

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Question No:15

(Marks:1)

Vu-Topper RM

Usually a _____ graph is chosen to represent a fuzzy set.

- A. Triangular**
- B. Circular
- C. Square
- D. Conical

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Question No:16

(Marks:1)

Vu-Topper RM

Outputs of learning are determined by the _____

- A. Application**
- B. Validation
- C. Training
- D. None of the given

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Question No:17

(Marks:1)

Vu-Topper RM

Many machine learning systems are _____ .

- A. Agents

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- B. Clusters
- C. Intelligent
- D. Classifiers**

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Question No:18

(Marks:1)

Vu-Topper RM

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

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

Page 129

Question No:19

(Marks:1)

Vu-Topper RM

If more than one domain experts have to be consulted for knowledge acquisition, then its better to use:

- A. Surveys
- B. Interviews
- C. Blackboard system**
- D. Electronic brainstorming

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Question No:20

(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**
- B. False
- C. Ambiguous
- D. None of the given

Page 161

Question No:21

(Marks:1)

Vu-Topper RM

Mamdani's method was among the first _____ built using fuzzy set theory.

- A. Control Systems**
- B. Expert Systems
- C. Intelligent System

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D. Decision analysis Systems

Question No:22

(Marks:1)

Vu-Topper RM

Identify the sequence wise main phases of Linear model used in developing expert systems.

- A. 1)Planning. 2)Knowledge acquisition and analysis. 3)System evaluation. 4)Knowledge design. 5)Code. 6)Knowledge verification.
- B. 1)Planning. 2)Knowledge acquisition and analysis. 3)Knowledge design. 4)System evaluation. 5)Code. 6)Knowledge verification.
- C. 1)Planning. 2)Knowledge acquisition and analysis. 3)Knowledge design. 4)Code. 5)System evaluation. 6)Knowledge verification.
- D. 1)Planning. 2)Knowledge acquisition and analysis. 3)Knowledge design. 4)Code. 5)Knowledge verification. 6)System evaluation. Page 129**

Question No:23

(Marks:1)

Vu-Topper RM

During _____ stage, knowledge engineer works with the domain expert to acquire, organize and analyse the domain knowledge.

- A. Knowledge acquisition Page 129**
- B. System Planning
- C. System Design
- D. Feasibility Study

Question No:24

(Marks:1)

Vu-Topper RM

Machine learning typically follows _____ phases according to Finlay.

- A. Two
- B. Three Page 160**
- C. Four
- D. Five

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Question No:25

(Marks:1)

Vu-Topper RM

The degree of truth is specifically driven out by a function called the _____ function.

A. Membership Page 149

B. Ordinary

C. Boolean

D. Inline

Question No:26

(Marks:1)

Vu-Topper RM

The input of the aggregation process is the list of truncated output functions returned by the _____ process for each rule.

A. Truncation

B. Implication

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C. Aggregation

D. Inheritance

Question No:27

(Marks:1)

Vu-Topper RM

In theoretical computer science there are two main branches of problems:

A. Tractable and Intractable

Page 165

B. Intractable and Induction

C. Tractable and Induction

D. None of the given

Question No:28

(Marks:1)

Vu-Topper RM

Which of the following is one of the general stages of ESDLC?

A. Spiral model

B. Design coding

C. Linear model

D. Beta system (tested by users)

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Question No:29

(Marks:1)

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Fuzzy _____ system have multidisciplinary nature.

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A. Logic **Google**

B. Set

C. Inference

D. None of these

Question No:30

(Marks:1)

Vu-Topper RM

“The concept of partial truth” can best be handled by:

A. Fuzzy logic **Page 147**

B. Boolean logic

C. Classical logic

D. Parametric logic

Question No:31

(Marks:1)

Vu-Topper RM

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

A. Boolean **Page 147**

B. Complex

C. Cognitive

D. Supervised

Question No:32

(Marks:1)

Vu-Topper RM

Choose the field(s) in which Fuzzy inference systems have been successfully applied:

A. Data Classification

B. Automatic Control

C. Decision Analysis

D. Automatic Control, Data Classification and Decision Analysis

Question No:33

(Marks:1)

Vu-Topper RM

Which of the following window is not present in CLIPS tool.

A. Rule window **Google**

B. Fact's window

C. Focus window

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D. Agenda window

Question No:34

(Marks:1)

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_____ learning works on existing facts and knowledge and deduces new knowledge from the old.

A. Deductive

Page 162

B. Inductive

C. Application

D. None of these

Question No:35

(Marks:1)

Vu-Topper RM

Learning denotes changes in a system that enables a system to do the same task more _____ the next time.

A. Effectively

B. Efficiently

Page 159

C. Conveniently

D. With Reliability

Question No:36

(Marks:1)

Vu-Topper RM

Backward chaining is more focused and tries to avoid exploring _____ paths of reasoning.

A. Different

B. Searching

C. Necessary

D. Unnecessary

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Question No:37

(Marks:1)

Vu-Topper RM

Which of the following is correct CLIPS command to display the product of two numbers "5" and "3"?

A. (Printout t "Product of two number is " (x 5 3))

B. (Printout t "Product of two number is " (5 x 3))

C. (Printout t "Product of two number is " (5 * 3))

D. (Printout t "Product of two number is " (* 5 3))

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Question No:38

(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**
- D. Conflict resolution rule

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Question No:39

(Marks:1)

Vu-Topper RM

According to De Morgan's Laws:

$\sim(A \vee B) = ?$

Note: " $\sim$ " represents negation.

- A. $\sim A \rightarrow B$
- B. $\sim A \wedge \sim B$**
- C. $\sim B \rightarrow A$
- D. $\sim B \rightarrow \sim A$

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Question No:40

(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**
- D. Secondary storage

Page 117

Question No:41

(Marks:1)

Vu-Topper RM

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

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

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Question No:42

(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)**
- D. Deftemplate

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Question No:43

(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**
- C. Inference engine
- D. Knowledge engineer

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Question No:44

(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**
- C. A database of facts
- D. An interpreter, or inference engine

Page 117

Question No:45

(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**
- C. Transition state

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D. Intermediate state

Question No:46

(Marks:1)

Vu-Topper RM

In CLIPS, the Defrule construct is used to add _____.

A. Facts

B. Rules

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C. Agenda

D. Principles

Question No:47

(Marks:1)

Vu-Topper RM

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

A. $\neg A \vee B$

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B. $\sim A \wedge B$

C. $A \vee \sim B$

D. $A \wedge \sim B$

Question No:48

(Marks:1)

Vu-Topper RM

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

Predicate engine

A. Domain knowledge

Page 116

B. Reasoning Knowledge

C. Affirmation knowledge

Question No:49

(Marks:1)

Vu-Topper RM

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

A. High

Page 113

B. Low

C. Medium

D. Average

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Question No:50

(Marks:1)

Vu-Topper RM

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

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

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Question No:51

(Marks:1)

Vu-Topper RM

IF A THEN B

This can be considered to have a similar logical meaning as the following:

- A. $A \leftarrow B$
- B. $A \leftrightarrow B$
- C. $A \rightarrow B$**
- D. None of the given

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Question No:52

(Marks:1)

Vu-Topper RM

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

- A. object, class
- B. Rule engine, operators
- C. Fact table, working memory
- D. Working memory, domain knowledge**

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Question No:53

(Marks:1)

Vu-Topper RM

Clips command for multiplying two numbers 3 and 4 is.

- A. CLIPS> *(3 4)
- B. CLIPS> (* 3 4)**
- C. CLIPS> (3 4*)
- D. CLIPS> (3 * 4)

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Question No:54

(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:55

(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:56

(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

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Question No:57

(Marks:1)

Vu-Topper RM

$A \vee (B \wedge C) =$

Note:

" $\vee$ " represents OR operator

" $\wedge$ " represents AND operator

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

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

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

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

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Question No:58

(Marks:1)

Vu-Topper RM

In CLIPS, _____ command is used to remove facts.

- A. Facts
- B. Erase
- C. Delete

D. Retract

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Question No:59

(Marks:1)

Vu-Topper RM

The correct command to load a clips file is:

A. (load "filename.clp")

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- B. (load file "filename.clp")
- C. (read file "filename.clp")
- D. (read "filename.clp")

Question No:60

(Marks:1)

Vu-Topper RM

In CLIPS, _____ command erases contents of working memory.

A. (clear)

Page 136

- B. (erase)
- C. (retract)
- D. (remove)

Question No:61

(Marks:1)

Vu-Topper RM

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

- A. System memory
- B. Knowledge base

C. Inference engine

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D. Working memory

Question No:62

(Marks:1)

Vu-Topper RM

CLIPS stands for:

- A. C++ Linguist Integrated Production System
- B. C# Language Integrated Production System
- C. COBOL Language Integrated Production System

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Question No:63

(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

Question No:64

(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**
- D. Conjunction

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Question No:65

(Marks:1)

Vu-Topper RM

In CLIPS, _____ command is used to remove facts.

- A. Erase
- B. Facts
- C. Delete

D. Retract

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Question No:66

(Marks:1)

Vu-Topper RM

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

A. Syntax

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B. Operator

C. Behavior

D. Semantics

Question No:67

(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. $\sim A \vee B$

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D. $A \vee \sim B$

Question No:68

(Marks:1)

Vu-Topper RM

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

A. $(A \vee B)$

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

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

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

Question No:69

(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)

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D. CLIPS> (+ 34+)

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Question No:70

(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

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Question No:71

(Marks:1)

Vu-Topper RM

Identify the correct statement to list facts numbers 1 through 10

A. clips> (facts 1 10)

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- B. clips> (facts 1 to 10)
- C. clips> (facts 10)
- D. clips> (facts 1)

Question No:72

(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:73

(Marks:1)

Vu-Topper RM

According to De-Morgan's law:

$\sim(A \wedge B) =$

Note: " $\sim$ " represents negation

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

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- B. $\sim A \rightarrow B$
- C. $\sim B \rightarrow \sim A$
- D. $\sim B \rightarrow A$

Question No:74

(Marks:1)

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

A. Meta rules

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- B. Forward chain
- C. Backward chain rules
- D. Conflict resolution rules

Question No:75

(Marks:1)

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

A. ANDs of Ors.

Page 107

- B. ANDs
- C. Ors
- D. Ors of ANDs

Question No:76

(Marks:1)

Vu-Topper RM

Identify correct statement for the given rule.

IF IELTS score of Ali is 6 and CGPA of Ali is 3.7 and GRE score of Ali is 66 Then He is eligible to take admission in any of the University abroad

- A. (deftemplate Ali (slot attribute)(slot value))(defrule A chance (Ali (attribute "IELTS score")(value "6"))(Ali (attribute "CGPA")(value "3.7"))(Ali (attribute "GRE")(value "66"))=>(printout t "He is eligible to take admission in any of the University abroad"))
- B. (deftemplate Ali (slot attribute)(slot value))(defrule A chance (Ali (attribute "IELTS score")(value "6"))(Ali (attribute "CGPA")(value "3.7"))(Ali (attribute "GRE")(value "66"))=>(printout t "He is eligible to take admission in any of the University abroad"))
- C. (deftemplate Ali (slot attribute)(slot value))(defrule A chance (Ali (attribute "IELTS score")(value "6"))(Ali (attribute "CGPA")(value "3.7"))(Ali (attribute "GRE")(value "66"))<=>(printout t "He is eligible to take admission in any of the University abroad"))
- D. (defrule A chance (Ali (attribute "IELTS score")(value "6"))(Ali (attribute "CGPA")(value "3.7"))(Ali (attribute "GRE")(value "66"))=>(printout t "He is eligible to take admission in any of the University abroad"))**

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Question No:77

(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:78

(Marks:1)

Vu-Topper RM

Which one is NOT the phase of machine learning:

A. Training

B. Application

C. Validation

D. None of the given

Page 189

Question No:79

(Marks:1)

Vu-Topper RM

Identify the sets in which Membership Function is used.

A. Crisp set

B. Fuzzy set

Page 149

C. Classical set

D. None of the above

Question No:80

(Marks:1)

Vu-Topper RM

_____ do not restrict themselves to something lying wholly in either set A or in set not-A.

A. Fuzzy sets

Page 146

B. Classical sets

C. Complex sets

D. Boolean sets

Question No:81

(Marks:1)

Vu-Topper RM

Problems faced during knowledge acquisition may include:

A. Expert may not provide relevant information

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- B. Expert may provide incomplete knowledge
- C. Expert may provide inconsistent or incorrect knowledge
- D. All of the given options** **Page 131**

Question No:82 **(Marks:1)** **Vu-Topper RM**
_____ logic lets us define more realistically the true functions that define real world scenarios.

- A. Fuzzy** **Page 148**
- B. Classical
- C. Boolean
- D. None of the given

Question No:83 **(Marks:1)** **Vu-Topper RM**
Knowledge elicitation methods may be classified into:

- A. Direct and indirect methods** **Page 130**
- B. Hierarchical and nonhierarchical methods
- C. Data Driven and application driven methods
- D. None of the given options

Question No:84 **(Marks:1)** **Vu-Topper RM**
In context of membership function, the truth value "0.0" normally represents:

- A. Absolute Falseness**
- B. Partial Falseness
- C. Absolute Truth
- D. Partial Truth

Question No:85 **(Marks:1)** **Vu-Topper RM**
The input of aggregation process is the list of truncated output functions returned by the ___ process for each rule.

- A. Truncation
- B. Implication** **Page 184**
- C. Aggregation

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D. None of the given

Question No:86

(Marks:1)

Vu-Topper RM

The brain is a collection of about 100 ____ interconnected neurons.

A. Million

B. Billion

Page 181

C. Trillion

D. None

Question No:87

(Marks:1)

Vu-Topper RM

A single Perceptron simply draws a line, which is a hyper plane when the data is ____ than/to two (2) dimensional.

A. More

Page 184

B. Less

C. Equal

D. None

Question No:88

(Marks:1)

Vu-Topper RM

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

A. G and S

Page 173

B. G and F

C. S and F

D. H and S

Question No:89

(Marks:1)

Vu-Topper RM

The first step of FIND-S is to initialize h to the most specific hypothesis in ____ : $h \in \langle \rangle$

A. H

Page 172

B. I

C. J

D. K

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Question No:90

(Marks:1)

Vu-Topper RM

Decision trees give us disjunctions of conjunctions, that is, they have the form: (A AND B) ____ (C AND D)

A. OR

Page 176

B. AND

C. XOR

D. None

Question No:91

(Marks:1)

Vu-Topper RM

Interactive Dichotomize uses a special function ____, to evaluate the gain information of each attribute.

A. GAIN

Page 177

B. GET

C. FIND

D. EVAL

Question No:92

(Marks:1)

Vu-Topper RM

Measure of the effectiveness of an attribute in classifying the training data is called

A. Information Gain

Page 177

B. Measure Gain

C. Information Goal

D. None

Question No:93

(Marks:1)

Vu-Topper RM

Artificial Neural Networks is a new learning paradigm which takes its roots from ____ inspired approach to learning.

A. Chemistry

B. Physics

C. Biology

Page 181

D. Mathematics

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Question No:94

(Marks:1)

Vu-Topper RM

Which one is NOT the advantage of Neural Network?

- A. Excellent for pattern recognition
- B. Excellent classifiers
- C. Handles noisy data well
- D. None of the given**

Question No:95

(Marks:1)

Vu-Topper RM

Identify that for which purpose statment given below is used (defalcate Person (slot name (type STRING)) (slot age(type NUMBER)))

- A. Attributes of a fact
- B. Rule
- C. Rule definition

D. CLIPS

Page 134

Question No:96

(Marks:1)

Vu-Topper RM

Fuzzy logic is actually a superset of conventional Boolean logic

A. True

Page 150

B. False

Question No:97

(Marks:1)

Vu-Topper RM

General stages of ESDLC includes.

- A. Spiral model
- B. Linear model

C. Beta system (tested by users)

Page 129

D. Design coding

Question No:98

(Marks:1)

Vu-Topper RM

Fuzzy logic is a subset of conventional (Boolean) logic.

A. True

B. False

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Question No:99

(Marks:1)

Vu-Topper RM

The goal of knowledge analysis is to analyze and structure the knowledge gained during the planning phase.

A. True

B. False

Question No:100

(Marks:1)

Vu-Topper RM

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

A. True

Page 145

B. False

Question No:101

(Marks:1)

Vu-Topper RM

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

A. Intersection Set

B. Union Set

C. Crisp Set

D. Fuzzy Set

Question No:102

(Marks:1)

Vu-Topper RM

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

A. Longest rule

B. Complex rule

C. Shortest rule

D. Forward chain rule

Question No:103

(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.

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- A. antique
- B. elementary
- C. primitive**
- D. secondary

Question No:104

(Marks:1)

Vu-Topper RM

If there are multiple parts to the antecedent, apply fuzzy logic _____ and resolve the antecedent to a single number between 0 and 1.

A. Operators

Page 153

- B. Rules
- C. Operations
- D. Conditions

Question No:105

(Marks:1)

Vu-Topper RM

The goal of _____ is to analyse and structure the knowledge gained during the knowledge acquisition phase.

- A. ES design
- B. Knowledge design
- C. Knowledge structure

D. Knowledge analysis

Page 131

Question No:106

(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:107

(Marks:1)

Vu-Topper RM

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

A. Forward chaining

Page 123

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

Question No:108

(Marks:1)

Vu-Topper RM

Reasoning in backward chaining is known as:

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

Page 127

Question No:1

(Marks:1)

Vu-Topper RM

Identify the step involved in planning phase.

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

Page 129

Question No:109

(Marks:1)

Vu-Topper RM

Intelligence is the ability to _____.

- A. Think/learn/Plan/Schedule**
- B. Recognize/Remember
- C. Problem solving
- D. All of the above

Page 5

Question No:110

(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. Weak and Strong
- D. None of the given

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Question No:111

(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. None of the given

Question No:112

(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. Computer Science

B. Biology

C. Mathematics

D. Psychology

Page 9

Question No:113

(Marks:1)

Vu-Topper RM

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. Mathematics

B. Biology

Page 9

C. Computer Science

D. Psychology

Question No:114

(Marks:1)

Vu-Topper RM

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

A. Linguistic

Page 9

B. Philosophy

C. Biology

D. Psychology

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Question No:115

(Marks:1)

Vu-Topper RM

Hit and trial is a classical approach to solve the _____ problem easily.

A. Trivial

B. Medium

C. All of the given

D. None of the given

Question No:116

(Marks:1)

Vu-Topper RM

_____ is a Classical way of problem solving.

A. GA

B. Generate and Test

Page 15

C. Reasoning

D. None of the given

Question No:117

(Marks:1)

Vu-Topper RM

The traveling inside a solution space requires something called as _____.

A. Problem Statement

B. Operands

C. Operators

Page 18

D. Solution Space

Question No:118

(Marks:1)

Vu-Topper RM

Some essential components of problem solving are Problem statement, Solution space and Operators.

A. Complex State.

B. Initial State.

C. Intermediate State.

D. Goal State

Page 17

Question No:119

(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.

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A. Pseudocode

B. Algorithms

Page 21

C. Charts

D. Graphs

Question No:120

(Marks:1)

Vu-Topper RM

In Optimal Path searches we try to find the _____ solution.

A. Least

B. Best

Page 24

C. Last but not the Least

D. None of the given

Question No:121

(Marks:1)

Vu-Topper RM

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

A. Trees

B. Demos

C. Graph

Page 21

D. None of the given

Question No:122

(Marks:1)

Vu-Topper RM

We use graphs to represent problems and their solution spaces.

A. True

Page 22

B. False

Question No:123

(Marks:1)

Vu-Topper RM

Every graph can be converted into a tree.

A. True

Page 22

B. False

Question No:124

(Marks:1)

Vu-Topper RM

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

A. Time

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- B. Space
- C. Time and space both
- D. All of the given**

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Question No:125

(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. Minimum
- B. Maximum**
- C. Zero
- D. Both minimum and maximum

Page 25

Question No:126

(Marks:1)

Vu-Topper RM

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

- A. True
- B. False**

Question No:127

(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. Big
- C. Size

Question No:128

(Marks:1)

Vu-Topper RM

The foothill problem occurs whenever there are _____ peaks.

- A. High
- B. Secondary** **Google**
- C. Primary
- D. Deep

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Question No:129

(Marks:1)

Vu-Topper RM

Which one of the problems is more subtle, and consequently, is more frustrating?

- A. Foothill problem
- B. Plateau
- C. Ridge**
- D. Box

Question No:130

(Marks:1)

Vu-Topper RM

The paths founded by Best First search are likely to be _____ than those found with other methods.

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

Question No:131

(Marks:1)

Vu-Topper RM

Best First Search is a greedy approach.

- A. True**
- B. False

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Question No:132

(Marks:1)

Vu-Topper RM

In Adversarial search there may occur such a scenario where two opponents also called _____ are searching for a goal.

- A. Adversaries**
- B. Friend
- C. Players
- D. Intruders

Page 62

Question No:133

(Marks:1)

Vu-Topper RM

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

- A. True**

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B. False

Question No:134

(Marks:1)

Vu-Topper RM

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

A. True **Google**

B. False

Question No:135

(Marks:1)

Vu-Topper RM

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

A. Number

B. Change

Page 77

C. Operator

D. Operand

Question No:136

(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 given

Question No:137

(Marks:1)

Vu-Topper RM

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

A. Alternative function

B. Recursive function

C. Best function

D. Fitness function

Page 83

Question No:138

(Marks:1)

Vu-Topper RM

What is the correct order for solving a problem using GA

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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 84

Question No:139

(Marks:1)

Vu-Topper RM

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

A. True

Page 79

B. False

Question No:140

(Marks:1)

Vu-Topper RM

In GA, the random process is repeated until an individual with requiredlevel is found.

A. Higher

B. Lower

C. Fitness

Page 86

D. Logical

Question No:141

(Marks:1)

Vu-Topper RM

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

A. Representation

Page 89

B. Execution

C. Learning

D. Planning

Question No:142

(Marks:1)

Vu-Topper RM

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

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- A. Planning
- B. Perception**
- C. Learning
- D. Execution

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Question No:143

(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. Does not exist

Page 97

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

Question No:144

(Marks:1)

Vu-Topper RM

A proposition is the statement of a _____.

- A. Equation
- B. Action
- C. Theorem

D. Fact

Page 98

Question No:145

(Marks:1)

Vu-Topper RM

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

- A. distance, relationships
- B. objects, distance
- C. relationships, distance

D. objects, relationships

Page 97

Question No:146

(Marks:1)

Vu-Topper RM

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

- A. Representation
- B. Execution

C. Reasoning

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D. Planning

Question No:147

(Marks:1)

Vu-Topper RM

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

A. Antecedent

B. Consequent

Page 95

Question No:148

(Marks:1)

Vu-Topper RM

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

A. Deductive

B. Abductive

C. Inductive

Page 102

D. Analogical

Question No:149

(Marks:1)

Vu-Topper RM

An _____ is "A computer program designed to model the problem-solving ability of a human expert".

A. Expert system

Page 111

B. Intelligent System

C. Echo System

D. Energy System

Question No:150

(Marks:1)

Vu-Topper RM

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

A. R1/XCON

Page 112

B. MYCIN

C. Deandra

D. R3/XCON

Question No:151

(Marks:1)

Vu-Topper RM

An expert system may replace the expert or assist the expert.

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A. True

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B. False

Question No:152

(Marks:1)

Vu-Topper RM

Conventional programming focuses on _____, while ES programming focuses on _____.

A. Solution, Problem

Page 122

B. Problem, Solution

C. Problem, Expert

D. Solution, Expert

Question No:153

(Marks:1)

Vu-Topper RM

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

A. Proof

B. Goal

Page 126

C. Plan

D. None of the given

Question No:154

(Marks:1)

Vu-Topper RM

_____ characterizes the purity/impurity of an arbitrary collection of examples.

A. Entropy

Page 177

B. Destroy

Question No:155

(Marks:1)

Vu-Topper RM

_____ stands for interactive dichotomize-----

A. ID

Page 177

B. Site

Question No:156

(Marks:1)

Vu-Topper RM

The Entropy is 1 when the collection contains number of positive examples _____ to/than negative examples.

A. Equal

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- B. Greater
- C. Less
- D. None of the given

Question No:157

(Marks:1)

Vu-Topper RM

A drawback of FIND-S is that, it assumes the consistency within the training set.

A. True

Page 173

B. False

Question No:158

(Marks:1)

Vu-Topper RM

Hypothesis space uses the _____ of the attributes.

A. Conjunctions (AND)

Page 168

B. Disjunctions (OR)

C. Negation (NOR)

D. None of the given

Question No:159

(Marks:1)

Vu-Topper RM

Aggregation only occurs once for each output variable, just after the fifth and final step, defuzzification.

A. True

Page 157

B. False

Question No:160

(Marks:1)

Vu-Topper RM

Complex problems usually have well-defined steps

A. True

B. False

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Question No:161

(Marks:1)

Vu-Topper RM

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

A. automatic control

B. data classification

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C. decision analysis

D. All of the given

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Question No:162

(Marks:1)

Vu-Topper RM

Fuzzy inference systems (FIS) are NOT associated with a number of names.

A. True

B. False

Question No:163

(Marks:1)

Vu-Topper RM

Fuzzy inference systems are not associated with number of names:

A. True

B. False

Question No:164

(Marks:1)

Vu-Topper RM

A single layer perceptron cannot perform pattern classification on linearly separable patterns

A. True

B. False

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Question No:165

(Marks:1)

Vu-Topper RM

Machine learning is prerequisite for any mature program of artificial intelligence

A. True

B. False

Question No:166

(Marks:1)

Vu-Topper RM

_____ is process of formulation the mapping from given input to output using fuzzy logic

A. FIZ

B. FIS

Page 153

C. FOS

D. None of given

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Question No:167

(Marks:1)

Vu-Topper RM

Decision trees give us dis-junctions of conjunctions, that is, they have the form: (A AND B) _____ (C AND D).

A. OR

Page 176

B. AND

C. XOR

D. None of the given

Question No:168

(Marks:1)

Vu-Topper RM

In all calculations involving Entropy we define _____ to be...

A. $0 \log 0, 0$

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B. $0 \log 10, 1$

C. $0 \log 0, 1$

D. $1 \log 1, 1$

Question No:169

(Marks:1)

Vu-Topper RM

The soma and the enclosed nucleus in neuron play a significant role in the processing of incoming and outgoing data.

A. True

B. False

Question No:170

(Marks:1)

Vu-Topper RM

Fuzzy inference systems (FIS) have multidisciplinary nature.

A. True

B. False

Question No:171

(Marks:1)

Vu-Topper RM

The Candidate-Elimination algorithm represents the _____

A. Version Space

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B. Solution Space

C. Elimination Space

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Question No:172

(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. Membership

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B. Ordinary

C. Fuzzy

D. Inline

Question No:173

(Marks:1)

Vu-Topper RM

A concept is the representation of the _____ with respect to the given attributes.

A. Solution

B. Problem

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C. Knowledge

D. None of the given

Question No:174

(Marks:1)

Vu-Topper RM

Many machine learning systems are classifiers

A. True

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B. False

Question No:175

(Marks:1)

Vu-Topper RM

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

A. Defined

B. Common

C. Separate

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D. Together

Question No:176

(Marks:1)

Vu-Topper RM

Each neuron in the hidden layer is responsible for a different _____.

A. Line

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B. Layer

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C. Neuron

Question No:177

(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

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Question No:178

(Marks:1)

Vu-Topper RM

Problems faced during knowledge acquisition may not include:

- A. Expert provide exact and accurate knowledge**
- B. Expert may not provide relevant information
- C. Expert may provide incomplete knowledge
- D. Expert may provide inconsistent or incorrect knowledge

Question No:179

(Marks:1)

Vu-Topper RM

If the true output of a concept $[c(x_i)]$ is 1 or 0 for an instance, then the output by our hypothesis $[h(x_i)]$ is 1 or 0 as well, respectively.

- A. True**
- B. False

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Question No:180

(Marks:1)

Vu-Topper RM

The tractable problems are further divided into structured and _____ problems

- A. Non-structured
- B. Complex**
- C. Simple
- D. None of the given

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Question No:181

(Marks:1)

Vu-Topper RM

Can we precisely define Artificial Intelligence?

A. Yes we can

B. No we cannot

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Question No:182

(Marks:1)

Vu-Topper RM

Which of the following things demonstrate Intelligence?

A. Problem solving

B. Recognize/Remember

C. Think/learn/Plan/Schedule

D. All of the above

Question No:183

(Marks:1)

Vu-Topper RM

Try to catch out own thoughts as they go by is _____.

A. Introspection

Page 28

B. Psychology

C. Both of given

D. None of the given

Question No:184

(Marks:1)

Vu-Topper RM

Intelligence is the characteristic of

A. Living being

Page 4

B. All things

Question No:185

(Marks:1)

Vu-Topper RM

_____ learning does not work on existing facts.

Deductive

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Question No:186

(Marks:1)

Vu-Topper RM

The _____ and the enclosed nucleus in neuron play a significant role in the processing of incoming and outgoing data.

Soma

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Question No:187

(Marks:1)

Vu-Topper RM

In ANNs, Training is the heart of learning, in which finding the best ____ that covers most of the examples is the objective.

Hypothesis

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Question No:188

(Marks:1)

Vu-Topper RM

The Multilayer Perceptron's are the most basic artificial neural

Networks

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