

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

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TEAM HADI(VU LAHORE)

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WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question No : 1 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Note Correct answer solve with stamp :

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Answer (Please select your correct option)

☐ Charniak and McDermott

☐ Winston

☒ Luger and Stubblefield



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Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

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

also in quiz

Answer (Please select your correct option)

☐ Linguistic

☐ Philosophy

☐ Biology

☐ Psychology



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Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

Technically hit and trial approach is called as the "Generate and _____" approach

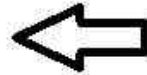
Answer (Please select your correct option)

☐ Consume

☒ Test

☐ Regenerate

☐ Modify



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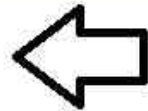
Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☐ Graph



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☐ Table

☐ Demo

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Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

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

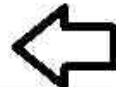
Answer (Please select your correct option)

☐ Pseudocode

☒ Algorithms

☐ Charts

☐ Graphs



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Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

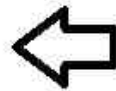
In Depth First Search the node with the largest value of height will be at the _____ priority to be picked.

Answer (Please select your correct option)

☐ Minimum

☒ Maximum

☐ Zero



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Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☒ Separating



☐ Joining

☐ Over

☐ None of the given

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Question No : 8 of 26

Marks: 1 (Budgeted Time 1 Min)

Best-first search always moves _____ from the node that seems closest to the goal node.

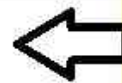
Answer (Please select your correct option)

☐ Backward

☐ Left

☐ Right

☐ Forward



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Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

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

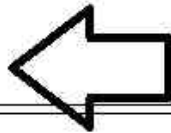
Answer (Please select your correct option)

☒ Adversaries

☐ Enemies

☐ Players

☐ Intruders



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Question No : 10 of 26

Marks: 1 (Budgeted Time 1 Min)

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

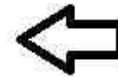
Answer (Please select your correct option)

☐ Number

☐ Change

☐ Operator

☐ Operand



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Question No : 11 of 26

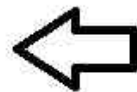
Marks: 1 (Budgeted Time 1 Min)

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

Also in quiz

Answer (Please select your correct option)

True



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False

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Question No : 12 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☐ Is correct

☐ Is incorrect

☐ Exists

☒ Does not exist



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Question No : 13 of 26

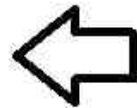
Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

True

☐



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False

☐

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Question No : 14 of 26

Marks: 1 (Budgeted Time 1 Min)

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

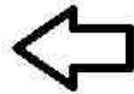
Answer (Please select your correct option)

True

☐

False

☒



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Question No : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☐ R1/XCON



☐ MYCIN

☐ Dendral

☐ R3/XCON

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Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☐ The domain expert

☐ The knowledge engineer

☐ The end user

☐ All of the given



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Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

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

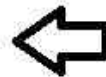
Answer (Please select your correct option)

☐ Proof

☒ Goal

☐ Plan

☐ None of the given



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Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

- ☐ Forward
- ☐ Backward
- ☐ Both forward and backward
- ☐ None of the given



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Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

False

☐

True

☒



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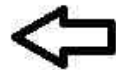
Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

- ☐ Time
- ☐ Space
- ☒ Time and space both
- ☐ None of the given



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Differentiate briefly and precisely between 'Structural knowledge' and 'Shallow knowledge'.

Answer ([Please click here to Add Answer](#))



Structural knowledge: Describes structures and their relationships: e.g. how the various parts of the car fit together to make a car, or knowledge structures in terms of concepts, sub concepts, and objects.

Page No. 90

Heuristic knowledge: Rule-of-thumb, e.g. if I start seeing shops, I am close to the market.
o Heuristic knowledge is sometimes called shallow knowledge.

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Write the CLIPS command which is used to remove only facts information from memory.

Answer ([Please click here to Add Answer](#))



Page No. 134-135

Removing facts:

The retract command is used to remove or retract facts. For example:

(retract 1) removes fact 1

(retract 1 3) removes fact 1 and 3

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Do you think that deduction mechanism is feasible in practical systems or not? Give reason to support your answer?

Answer ([Please click here to Add Answer](#))



Page No. 107

The deduction mechanism using the four rules of inference may be used in practical systems, but is not feasible. It uses a lot of inference rules that introduce a large branch factor in the search for a proof. An alternative is approach is called resolution, a strategy used to determine the truth of an assertion,

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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

Out of different general components of an artificial intelligent system/AI cycle which two components are best suited to be called closely coupled or interdependent upon each other? Also tell why?

Answer (Please [click here](#) to Add Answer)



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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

Does a knowledge which is gained by a person to drive a truck is best suitable to be called 'Declarative Knowledge' or not? Give reason to support your answer.

Answer ([Please click here to Add Answer](#))



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How can you elaborate the conflict resolution strategies?

Best of luck :)
Hadi

Answer (Please [click here](#) to Add Answer)



Conflict resolution strategies

To overcome the conflict problem stated above, we may choose to use one of the following conflict resolution strategies:

- Fire first rule in sequence (rule ordering in list). Using this strategy all the rules in the list are ordered (the ordering imposes prioritization). When more than one rule matches, we simply fire the first in the sequence.
- Assign rule priorities (rule ordering by importance). Using this approach we assign explicit priorities to rules to allow conflict resolution.
- More specific rules (more premises) are preferred over general rules. This strategy is based on the observation that a rule with more premises, in a sense, more evidence or votes from its premises, therefore it should be fired in preference to a rule that has less premises.
- Prefer rules whose premises were added more recently to WVM (timestamping). This allows prioritizing recently added facts over older facts.
- Parallel Strategy (view-points). Using this strategy, we do not actually resolve the conflict by selecting one rule to fire. Instead, we branch out our execution into a tree, with each branch operation in parallel on multiple threads of reasoning. This allows us to maintain multiple view-points on the argument concurrently.

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