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# CS607 Final Term Papers By Waqar (File 5)

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Examination VU Examination System (... x)

Question No : 1 of 52 Marks: 1 (Budgeted Time 1 Min)

Ability to tackle ambiguous and fuzzy problems demonstrate

Answer ( Please select your correct option )

- None of the given
- Non intelligence behavior
- All of the given
- Intelligence

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Examination VU Examination System (... x)

Question No : 2 of 52 Marks: 1 (Budgeted Time 1 Min)

Computer vision encompasses topic(s) from

Answer ( Please select your correct option )

- Image processing
- Machine learning
- All of the given
- Pattern recognition

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Question No : 3 of 52 Marks: 1 (Budgeted Time 1 Min)

In theoretical computer science there are \_\_\_\_\_ main branches of problems

Answer ( Please select your correct option )

1  
2  
3  
4

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Question No : 4 of 52 Marks: 1 (Budgeted Time 1 Min)

There are \_\_\_\_\_ phases in machine learning

Answer ( Please select your correct option )

1  
2  
3  
4

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Question No : 5 of 52 Marks: 1 (Budgeted Time 1 Min)

Decision trees give us conjunctions of disjunctions.

Answer ( Please select your correct option )

True

False

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Question No : 6 of 52 Marks: 1 (Budgeted Time 1 Min)

The input for the defuzzification process is a fuzzy set (the aggregate output fuzzy set) and the output is a double number.

Answer ( Please select your correct option )

True

False

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Question No : 7 of 52 Marks: 1 (Budgeted Time 1 Min)

Which one is not step involved in the planning phase of Linear model for expert systems

Answer ( Please select your correct option )

- Feasibility assessment
- Resource allocation
- Task phasing and scheduling
- None of the given

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Question No : 8 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

- True
- False

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Question No : 9 of 52 Marks: 1 (Budgeted Time 1 Min)

Hit and trial is a classical approach to solve the \_\_\_\_\_ problems easily.

Answer ( Please select your correct option )

- Trivial
- Medium
- Major

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Question No : 10 of 52 Marks: 1 (Budgeted Time 1 Min)

The traveling inside a solution space requires something called as \_\_\_\_\_.

Answer ( Please select your correct option )

- Operators
- Operands
- Inner solution
- Space solution

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Question No : 11 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

- Initial State
- Intermediate State
- Goal State
- Complex State

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Question No : 12 of 52 Marks: 1 (Budgeted Time 1 Min)

Every graph can be converted into a tree.

Answer ( Please select your correct option )

- True
- False

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Question No : 13 of 52 Marks: 1 (Budgeted Time 1 Min)

Breadth First Search explores the breadth of the tree first and progresses downward \_\_\_\_\_ by \_\_\_\_\_.

Answer ( Please select your correct option )

- Level
- Node
- Height
- Link

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Question No : 14 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

- True
- False

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Question No : 15 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

- Execution
- Planning
- Learning
- Perception

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Question No : 16 of 52 Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is an expert system which was developed at Stanford to aid physicians in diagnosing and treating patients with a particular blood disease

Answer ( Please select your correct option )

- MYCIN
- DENDRAL
- R1/XCON
- R3/XCON

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Question No : 17 of 52 Marks: 1 (Budgeted Time 1 Min)

The goal of an Assisting Expert is to aid an expert in a routine tasks to increase \_\_\_\_\_.

Answer ( Please select your correct option )

- Planning
- Execution
- Productivity
- Correctness

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Question No : 18 of 52 Marks: 1 (Budgeted Time 1 Min)

Which one is the general stage of the expert system development life cycle:

Answer ( Please select your correct option )

- Feasibility study
- Rapid prototyping
- Alpha system (in-house verification)
- All of the given

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Question No : 19 of 52 Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is the bottleneck in the construction of expert system.

Answer ( Please select your correct option )

- Planning
- Knowledge acquisition
- Knowledge Design
- Code

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Question No : 20 of 52 Marks: 1 (Budgeted Time 1 Min)

Select the category that does NOT belong to Elicitation methods.

Answer ( Please select your correct option )

- Direct methods
- Indirect methods
- Informal discussions
- Formal discussions

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Question No : 21 of 52 Marks: 1 (Budgeted Time 1 Min)

The goal of knowledge analysis is to analyze and structure the \_\_\_\_\_ gained during the knowledge acquisition phase.

Answer ( Please select your correct option )

- knowledge
- facts
- rules
- conclusions

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Question No : 22 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

- True
- False

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Question No : 23 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

- Aristotle
- Newton
- Einstein
- None of the given

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Question No : 24 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

- Boolean
- Complex
- Coognitive
- Supervised

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Question No : 25 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

- Operators
- Rules
- Conditions
- None of the given

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Question No : 26 of 52 Marks: 1 (Budgeted Time 1 Min)

Outputs of learning are determined by the \_\_\_\_\_

Answer ( Please select your correct option )

- Application
- Validation
- Training
- None of the given

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Question No : 27 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

- True
- False
- Ambiguous
- None of the given

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Question No : 28 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

- Deductive
- Inductive
- Application
- None of the given

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Question No : 29 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

- Solution
- Problem
- Knowledge
- None of the given

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Question No : 30 of 52 Marks: 1 (Budgeted Time 1 Min)

Hypothesis space uses the \_\_\_\_\_ of the attributes.

Answer ( Please select your correct option )

- Conjunctions (AND)
- Disjunctions (OR)
- Negation (NOR)
- None of the given

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Question No : 31 of 52 Marks: 1 (Budgeted Time 1 Min)

In all calculations involving Entropy we define \_\_\_\_\_ to be \_\_\_\_\_

Answer ( Please select your correct option )

- a) 0 log 0, 0
- b) 0 log 10, 1
- c) 0 log 0, 1
- d) 1 log 1, 1

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Question No : 32 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

- a) Information Gain
- b) Measure Gain
- c) Information Goal
- d) None of the given

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Question No : 33 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

True

False

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Question No : 34 of 52 Marks: 1 (Budgeted Time 1 Min)

A single layer perceptron can not perform pattern classification on linearty separable patterns.

Answer ( Please select your correct option )

True

False

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Question No : 35 of 52 Marks: 1 (Budgeted Time 1 Min)

A single layer perceptron can not perform pattern classification on linearly separable patterns.

Answer ( Please select your correct option )

True

False

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Question No : 36 of 52 Marks: 1 (Budgeted Time 1 Min)

In Planning phase, each state is represented in predicate logic.

Answer ( Please select your correct option )

True

False

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Question No : 37 of 52 Marks: 1 (Budgeted Time 1 Min)

Action is a \_\_\_\_\_ used to change states.

Answer ( Please select your correct option )

- Predicate
- Function
- Operator
- None of the given

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Question No : 38 of 52 Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is a subfield of \_\_\_\_\_.

Answer ( Please select your correct option )

- Computer Vision, Artificial Intelligence
- Artificial Intelligence, Computer Vision
- Artificial Intelligence, Neural Nets
- None of the given

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Question No : 39 of 52 Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ deals with procedures that extract useful information from static pictures and sequence of images.

Answer ( Please select your correct option )

- Computer Vision
- Neural Networks
- Predicate logic
- None of the given

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Question No : 40 of 52 Marks: 1 (Budgeted Time 1 Min)

Which of the combinations is possible to solve real world problems?

Answer ( Please select your correct option )

- Genetic fuzzy
- Neuro -Fuzzy systems
- Neuro-Genetic systems
- All of the given

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Question No : 41 of 52 Marks: 2 (Budgeted Time 4 Min)

Consider a situation in which we want to find out a relationship between input and given set of data by using genetic algorithm. Which application field of Genetic Algorithm do you think belongs with this situation?

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

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Question No : 42 of 52 Marks: 2 (Budgeted Time 4 Min)

How can you elaborate the term "inductive learning"?

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

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Examination VU Examination System (... x)

Question No : 43 of 52 Marks: 2 (Budgeted Time 4 Min)

A person wants to know about the Find-S algorithm and you are considered as Find-S algorithm specialist. How can you elaborate the Find-S algorithm in a precise manner?

Answer ( Please click here to Add Answer )

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Examination VU Examination System (... x)

Question No : 44 of 52 Marks: 2 (Budgeted Time 4 Min)

Give reason that why clustering algorithms are categorized as unsupervised learning?

Answer ( Please click here to Add Answer )

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Question No : 45 of 52 Marks: 3 (Budgeted Time 6 Min)

Out of different design phases of Artificial Neural Network (ANN) which design phase is most important in order to start learning in ANN? Give reason to support your answer.

Answer ( Please click here to Add Answer )

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Question No : 46 of 52 Marks: 3 (Budgeted Time 6 Min)

Out of two 'Adversarial Search' strategy and 'Genetic Algorithm' which one is best for a situation in which requirements are not clearly defined and the problem is ill-structured, that is, we don't exactly know the initial state, goal state and operators etc?

Answer ( Please click here to Add Answer )

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Examination VU Examination System (... x)

Question No : 47 of 52 Marks: 3 (Budgeted Time 6 Min)

Write down an example of a vague or fuzzy statement from everyday life and also give reason that why it is vague?

Answer ( Please click here to Add Answer )

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Question No : 48 of 52 Marks: 3 (Budgeted Time 6 Min)

A learning problem is primarily composed of which three things?

Answer ( Please click here to Add Answer )

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Question No : 49 of 52 Marks: 5 (Budgeted Time 10 Min)

How can you elaborate the "explanation facility" in expert system? Elaborate it with an example.

Answer ( Please click here to Add Answer )

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Question No : 50 of 52 Marks: 5 (Budgeted Time 10 Min)

A person wants to know about the Artificial Neural Networks. How can you elaborate the design phases of Artificial Neural Networks?

Answer ( Please click here to Add Answer )

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Question No : 51 of 52 Marks: 5 (Budgeted Time 10 Min)

What are the three characteristics that any learning agent or algorithm should have? Give their details also.

Answer ( Please click here to Add Answer )

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Question No : 52 of 52 Marks: 5 (Budgeted Time 10 Min)

"Planning predicates are the predicates that define states whereas condition is a predicate used to change states". Do you agree with the statement or not? Give reason to support your answer.

Answer ( Please click here to Add Answer )

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