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CS607 Final Term Papers By Waqar (File 2)

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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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Examination VU Examination System (... x)

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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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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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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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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Examination VU Examination System (... x)

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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Examination VU Examination System (... x)

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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Examination VU Examination System (... x)

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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