

**MIDTERM EXAMINATION  
Spring 2011  
CS607- Artificial Intelligence**

**Question No: 1 ( Marks: 1 ) - Please choose one**

Breadth-first search is a good idea when you are confident that the branching factor is \_\_\_\_\_

- ▶ Extremely small
- ▶ **Small**
- ▶ Medium
- ▶ Large

**Question No: 2 ( Marks: 1 ) - Please choose one**

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

- ▶ **R1/XCON (Page 112)**
- ▶ MYCIN
- ▶ Dendral
- ▶ R3/XCON

**Question No: 3 ( Marks: 1 ) - Please choose one**

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

- ▶ **Representation (Page 89)**
- ▶ Execution
- ▶ Learning
- ▶ Planning

**Question No: 4 ( Marks: 1 ) - Please choose one**

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

- ▶ Planning
- ▶ **Perception (Page 89)**
- ▶ Learning
- ▶ Execution

**Question No: 5 ( Marks: 1 ) - Please choose one**

Progressive deepening guarantees to find the solution at a minimum depth like

- ▶ DFS
- ▶ **BFS (Page 37)**
- ▶ None

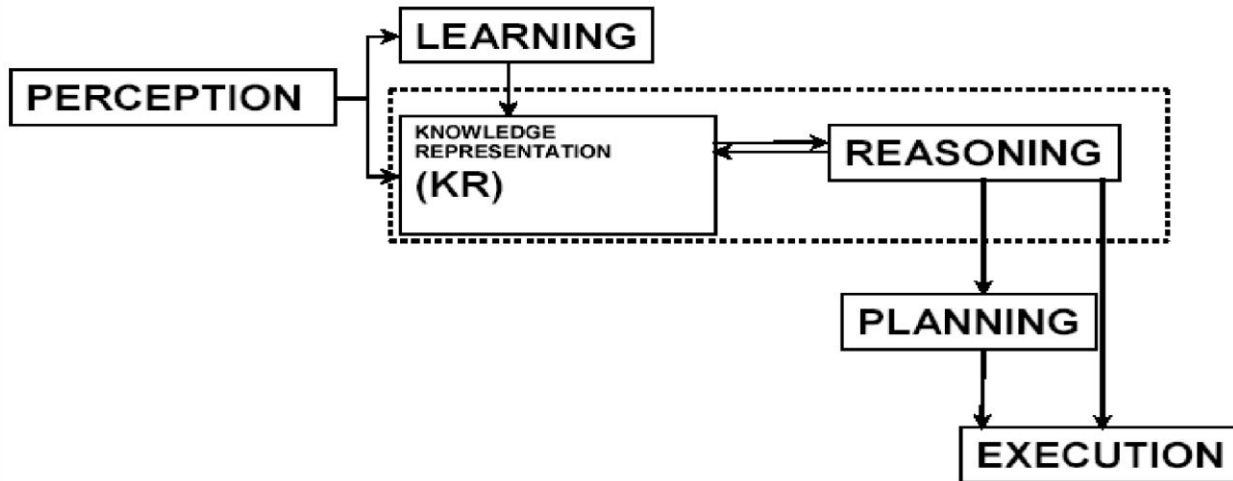
**Question No: 6 ( Marks: 1 ) - Please choose one**

In Adversarial search the goals of the adversaries are usually \_\_\_\_\_ to each other

- ▶ **Contrary (Page 62)**
- ▶ Same
- ▶ None

**Question No: 7 ( Marks: 1 ) - Please choose one**

Which Cycle does the following figure show?



- ▶ **AI Cycle (Page 89)**
- ▶ Design Cycle
- ▶ SDLC
- ▶ None

خدا کے سوا کسی سے امید مت رکھو

**Question No: 8**

**Please choose one**

To infer new information from semantic networks, we can ask questions from nodes.

▶ **True (Page 97)**

▶ False

**Question No: 9 ( Marks: 1 ) - Please choose one**

Which one is not the application area of expert system?

▶ Diagnosis

▶ Prescription

▶ Interpretation

▶ **None (Page 114)**

Ref: - Expert systems may be used in a host of application areas including diagnosis, interpretation, prescription, design, planning, control, instruction, prediction and simulation.

**Question No: 10 ( Marks: 1 ) - Please choose one**

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

▶ **Separate (Page 121)**

▶ Defined

▶ Together

▶ Common

**Question No: 11 ( Marks: 1 ) - Please choose one**

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

▶ The domain expert

▶ The knowledge engineer

▶ The end user

▶ **All of the given (Page 122)**

**Question No: 12 ( Marks: 1 ) - Please choose one**

Semantic networks are computationally expensive at \_\_\_\_\_

▶ **Run time (Page 97)**

▶ Compile Time

▶ Start Time

▶ End Time

**MIDTERM EXAMINATION**  
**Spring 2011**  
**CS607- Artificial Intelligence**

**Question No: 1 ( Marks: 1 ) - Please choose one**

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

▶ **True (Page 79)**

▶ False

**Question No: 2 ( Marks: 1 ) - Please choose one**

\_\_\_\_\_ reasoning is based on forming, or inducing a „generalization“ from a limited set of observations.

▶ Deductive

▶ Abductive

▶ Analogical

▶ **Inductive (Page 102)**

**Question No: 3 ( Marks: 1 ) - Please choose one**

\_\_\_\_\_ is the process of deriving logical conclusions from given facts.

▶ Representation

▶ Execution

▶ **Reasoning (Page 102)**

▶ Planning

**Question No: 4 ( Marks: 1 ) - Please choose one**

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

▶ **Feasibility study (Page 129)**

▶ Problem reorganization

▶ Scope study

▶ Rapid prototyping

**Question No: 5 ( Marks: 1 ) - Please choose one**

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

▶ **True (Page 160)**

▶ False

- ▶ Ambiguous
- ▶ None of the given

**Question No: 6**                      **Please choose one**

If the antecedent is only partially true, then the output fuzzy set is truncated according to the \_\_\_\_\_ method

- ▶ Intrinsic
- ▶ **Implication**     **(Page 153)**
- ▶ Boolean
- ▶ None of the given

**Question No: 7** ( **Marks: 1** ) - **Please choose one**

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

- ▶ automatic control
- ▶ data classification
- ▶ decision analysis
- ▶ **All of the given**                      **(Page 153)**

**Question No: 8** ( **Marks: 1** ) - **Please choose one**

Usually a \_\_\_\_\_ graph is chosen to represent a fuzzy set.

- ▶ **Triangular**                      **(Page 151)**
- ▶ Circular
- ▶ Conical
- ▶ None of the given

**Question No: 9** ( **Marks: 1** ) - **Please choose one**

Fuzzy logic is actually a superset of conventional Boolean logic

- ▶ **TRUE**                      **(Page 150)**
- ▶ FALSE

**Question No: 10** ( **Marks: 1** ) - **Please choose one**

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

- ▶ **Boolean**                      **(Page 147)**
- ▶ Complex
- ▶ Coognitive
- ▶ Supervised

**Question No: 11** ( **Marks: 1** ) - **Please choose one**

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

▶ TRUE (Page 145)  
▶ FALSE

---

**Question No: 12 ( Marks: 1 ) - Please choose one**

The degree of truth that we have been talking about is specifically driven out by a function called the \_\_\_\_\_ function.

▶ **Membership (Page 149)**

- ▶ Ordinary
- ▶ Fuzzy
- ▶ Inline

**Question No: 13 ( Marks: 1 ) - Please choose one**

The tractable problems are further divided into structured and \_\_\_\_\_ problems

- ▶ Non-structured
- ▶ **Complex (Page 166)**
- ▶ Simple

**Question No: 14 ( Marks: 1 ) - Please choose one**

If the antecedent is only partially true, then the output fuzzy set is truncated according to the \_\_\_\_\_ method

- ▶ Intrinsic
- ▶ **Implication (Page 153) rep**
- ▶ MSE stands for
- ▶ Mean Square Error

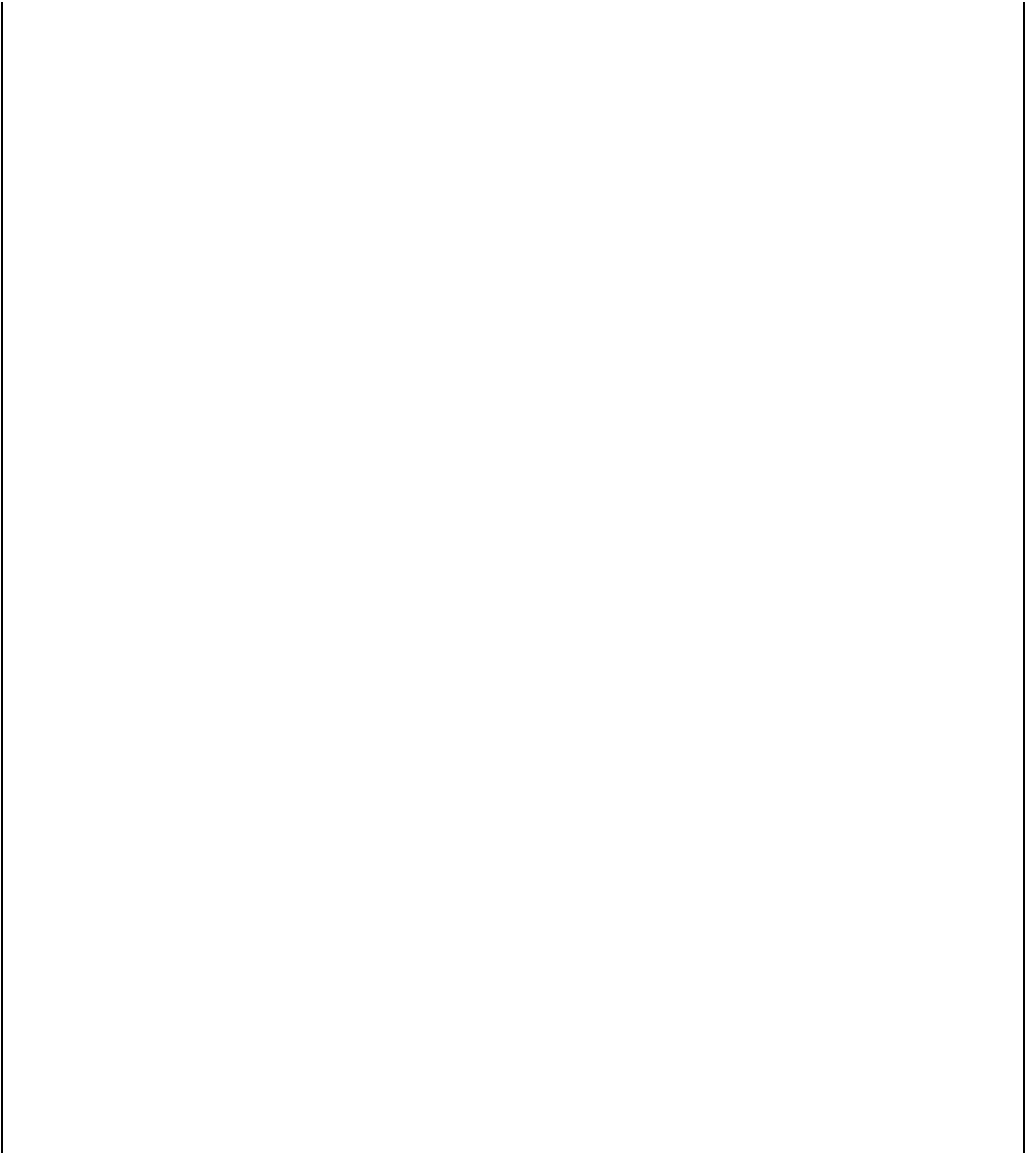
**MIDTERM EXAMINATION**  
**Spring 2010**  
**CS607- Artificial Intelligence (Session - 1)**

**Question No: 1 ( Marks: 1 ) - Please choose one**

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

- ▶ **Luger and Stubblefield (Page 8)**
- ▶ Winston
- ▶ Schalkoff
- ▶ Bellman





**Question No: 2** **Please choose one**

Searching is a formal mechanism to explore

▶ **Alternatives (Page 21)**

- ▶ Recursive
- ▶ Best
- ▶ Fitness

**Question No: 3 ( Marks: 1 ) - Please choose one**

In Artificial Intelligence GA stands for Genetic Algorithms

▶ **True (Page 77)**

- ▶ False

**Question No: 4 ( Marks: 1 ) - Please choose one**

----- is based on forming, or inducing a „generalization“ from a limited set of observations

▶ **Inductive reasoning (Page 102)**

- ▶ Deductive reasoning
- ▶ Analogical reasoning
- ▶ Common-sense reasoning

**Question No: 5 ( Marks: 1 ) - Please choose one**

“A computer program designed to model the problem solving ability of a human expert” is known as ---

▶ **Expert system (Page 111)**

- ▶ Intelligent System
- ▶ Echo System
- ▶ Energy System

**Question No: 6 ( Marks: 1 ) - Please choose one**

An expert system may replace the expert or assist the expert

▶ **True (Page 113)**

- ▶ False

**Question No: 7 ( Marks: 1 ) - Please choose one**

A ----- is „A person who posses the skill and knowledge to solve a specific problem in a manner superior to others“

▶ **The domain expert (Page 122)**

- ▶ The knowledge engineer

- ▶ The end user
- ▶ All of the given

**Question No: 8 (Marks: 1) - Please choose one**

Hill Climbing is basically a ----- with a measure of quality that is assigned to each node in the tree.

▶ **Depth First Search (Page 39)**

- ▶ Breadth First Search
- ▶ Best First Search
- ▶ Beam Search

**Question No: 9 (Marks: 1) - Please choose one**

----- are closely coupled components; each is intrinsically tied to the other.

i-Knowledge representation  
ii-Reasoning  
iii-Planning  
iv-Execution

- ▶ ii & iii
- ▶ ii & iii
- ▶ iii & iv

▶ **i & ii (Page 89)**

**Question No: 10 (Marks: 1) - Please choose one**

Every graph can be converted into a tree

- ▶ **True (Page 22)**
- ▶ False

**Question No: 11 (Marks: 1) - Please choose one**

Which one of the problem is more subtle, and consequently, is more frustrating:

- ▶ Foothill problem
- ▶ Plateau
- ▶ **Ridge (Artificial Intelligence, 3/E) [click here for detail](#)**
- ▶ Box

**MIDTERM EXAMINATION**  
**Spring 2009**  
**CS607- Artificial Intelligence (Session - 1)**

**Question No: 1 (Marks: 1) - Please choose one**

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

▶ **Graph (Page 21)**

- ▶ Table
- ▶ Demo

**Question No: 2 ( Marks: 1 ) - Please choose one**

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

- ▶ Pseudocode
- ▶ **Algorithms (Page 21)**
- ▶ Charts
- ▶ Graphs

**Question No: 3 ( Marks: 1 ) - Please choose one**

Every graph can be converted into a tree.

- ▶ **True (Page 22)**
- ▶ False

**Question No: 4 ( Marks: 1 ) - Please choose one**

In Breadth First Search the node with the largest value of height will be at the \_\_\_\_\_ priority to be picked.

- ▶ **Maximum (Page 28)**
- ▶ Minimum
- ▶ None of the given

**Question No: 5 ( Marks: 1 ) - Please choose one**

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

- ▶ **True**    [Click here for detail](#)
- ▶ False

**Question No: 6**

Breadth-first search is a good idea when you are confident that the branching factor is \_\_\_\_\_

- ▶ Extremely small
- ▶ **Small**    (Artificial Intelligence, 3/E)    [click here for detail](#)
- ▶ Medium
- ▶ Large

**Question No: 7**    ( Marks: 1 ) - Please choose one

The foothill problem occurs whenever there are \_\_\_\_\_ peaks.

- ▶ High
- ▶ **Secondary**    (Artificial Intelligence, 3/E)    [click here for detail](#)
- ▶ Primary
- ▶ Deep

**Question No: 8**    ( Marks: 1 ) - Please choose one

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

- ▶ **Separating**    (Artificial Intelligence, 3/E)    [click here for detail](#)
- ▶ Joining
- ▶ Over
- ▶ None of the given

**Question No: 9**    ( Marks: 1 ) - Please choose one

Which one of the problem is more subtle, and consequently, is more frustrating:

- ▶ Foothill problem
- ▶ Plateau
- ▶ **Ridge**    (Artificial Intelligence, 3/E)    [click here for detail](#)    Rep
- ▶ Box

**Question No: 10**    ( Marks: 1 ) - Please choose one

The paths found by best-first search are likely to be \_\_\_\_\_ than those found with other methods.

- ▶ None of the given
- ▶ **Shorter**    (Artificial Intelligence, 3/E)    [click here for detail](#)
- ▶ Longer

**Question No: 11 ( Marks: 1 ) - Please choose one**

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

▶ Number

▶ **Change (Page 77)**

▶ Operator

▶ Operand

**Question No: 12**

Which of the following two components are closely coupled and each is intrinsically tied to the other. i. Knowledge representation ii. Reasoning iii. Execution  
iv. Planning

▶ i & iii

▶ ii & iii

▶ iii & iv

▶ **i & ii (Page 89) rep**

**Question No: 13 ( Marks: 1 ) - Please choose one**

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

▶ **objects, relationships (Page 97)**

▶ relationships, distance

▶ objects, distance

▶ distance, relationships

**Question No: 14 ( Marks: 1 ) - Please choose one**

A proposition is the statement of a \_\_\_\_\_.

▶ **Fact (Page 98)**

▶ Equation

▶ Action

▶ Theorem

**Question No: 15 ( Marks: 1 ) - Please choose one**

\_\_\_\_\_ reasoning is based on forming, or inducing a „generalization“ from a limited set of observations. ▶ Deductive

▶ Abductive

▶ **Inductive (Page 102) rep**

▶ Analogical

**Question No: 16 ( Marks: 1 ) - Please choose one**

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

▶ **Expert system (Page 111) rep**

▶ Intelligent System

▶ Echo System

▶ Energy Sys





**Question No: 17**

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

▶ **R1/XCON (Page 112)**

- ▶ MYCIN
- ▶ Dendral
- ▶ R3/XCON

**Question No: 18 ( Marks: 1 ) - Please choose one**

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

▶ **True (Page 113) rep**

- ▶ False

**Question No: 19 ( Marks: 1 ) - Please choose one**

Conventional programming focuses on \_\_\_\_\_, while ES programming focuses on \_\_\_\_\_

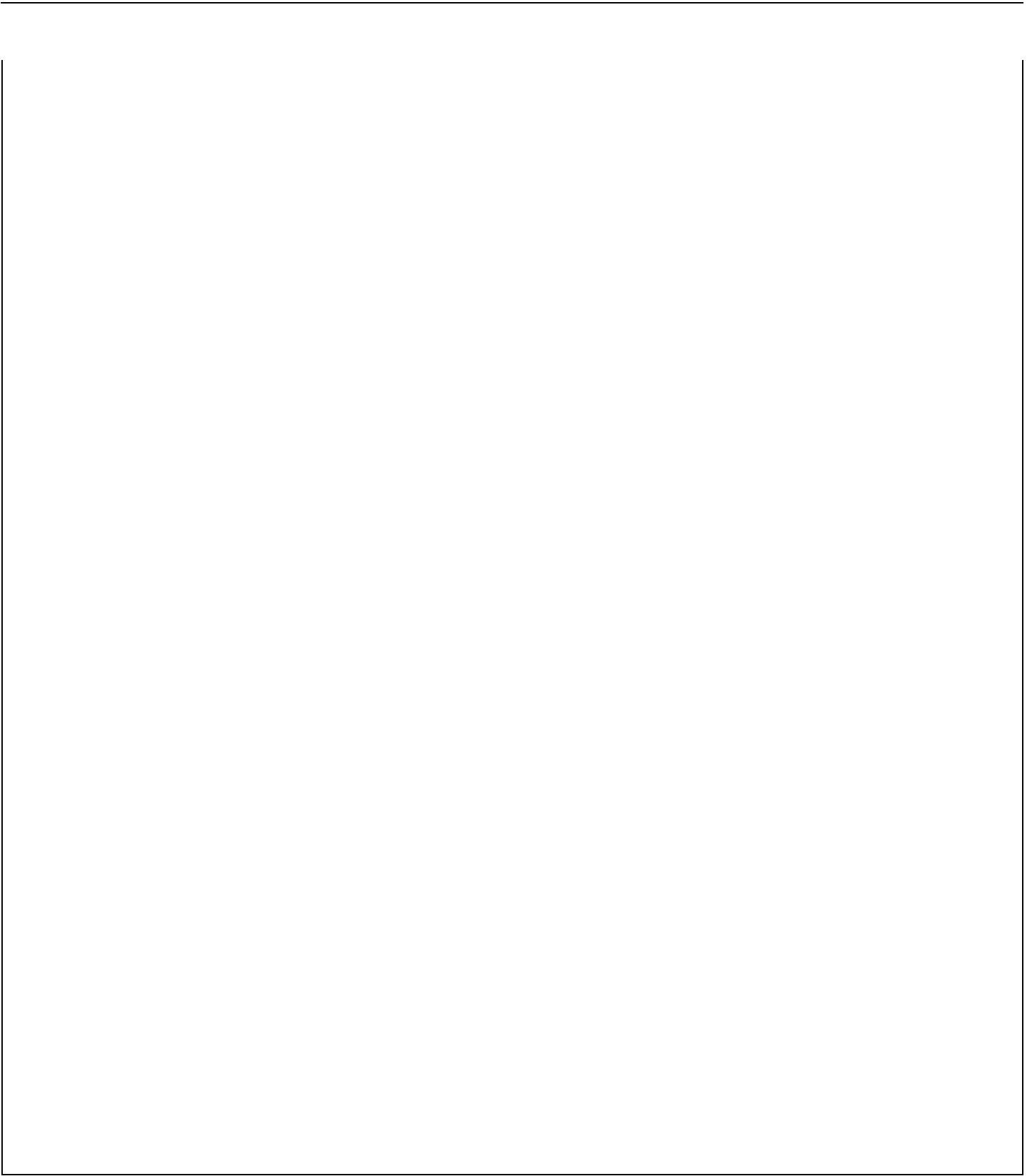
▶ **Solution, Problem (Page 122)**

- ▶ Problem, Solution
- ▶ Problem, Expert
- ▶ Solution, Expert

**Question No: 20 ( Marks: 1 ) - Please choose one**

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

- ▶ Proof
- ▶ **Goal (Page 126)**
- ▶ Plan
- ▶ None of the given



## CS607 – Quizzes (Quiz No.1)

### Question # 1 of 10 ( Marks: 1 ) - Please choose one

Some essential components of problem solving are Problem statement, \_\_\_\_\_, solution space and Operators

- ▶ Complex State
- ▶ Initial State
- ▶ Intermediate State
- ▶ **Goal State (Page 17)**

### Question # 2 of 10 ( Marks: 1 ) - Please choose one

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

- ▶ Operands
- ▶ Inner solution
- ▶ Space solution
- ▶ **Operators (Page 18)**

### Question # 3 of 10 ( Marks: 1 ) - Please choose one

Genetic Algorithms is a search method in which multiple search paths are followed in \_\_\_\_\_

- ▶ Series
- ▶ **Parallel (Page 77)**
- ▶ None of the give
- ▶ Sequential

### Question # 4 of 10 ( Marks: 1 ) - Please choose one

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

- ▶ **Linguistic (Page 9)**
- ▶ Philosophy
- ▶ Biology
- ▶ Psychology

### Question # 5 of 10 ( Marks: 1 ) - Please choose one

In optimal path searches we try to find the \_\_\_\_\_ solution

- ▶ Least
- ▶ Worst
- ▶ Least but not worst
- ▶ **Best (Page 24)**

**6 of 10 ( Marks: 1 )**

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

- ▶ Minimum
- ▶ **Maximum (Page 25)**
- ▶ Zero
- ▶ Both Minimum and maximum

**Question # 7 of 10 ( Marks: 1 ) - Please choose one**

In adversarial search there may occur such a scenario where two opponents also called \_\_\_\_\_ are searching for goal.

- ▶ **Adversaries (Page 62)**
- ▶ Friend
- ▶ Players
- ▶ Intruders

**Question # 8 of 10 ( Marks: 1 ) - Please choose one**

From discipline \_\_\_\_\_ we have information about the network structure of a human brain and all the theories on functionalities of different human organs.

- ▶ Mathematics
- ▶ **Biology (Page 9)**
- ▶ Computer Science
- ▶ Psychology

**Question # 9 of 10 ( Marks: 1 ) - Please choose one**

Hit and trial is classical approach to solve the \_\_\_\_\_ problem easily

- ▶ **Trivial (Page 15)**
- ▶ Medium

**Question # 10 of 10 ( Marks: 1 ) - Please choose one**

We use graph to represent problems and their solution spaces.

- ▶ False
- ▶ **True (Page 22)**

**Question # 1 of 10 ( Marks: 1 ) - Please choose one**

In GA, the random process is repeated until an individual with required \_\_\_\_\_ level is found.  
Select correct option:

- 
- ▶ Higher
  - ▶ Lower
  - ▶ **Fitness (Page 86)**
  - ▶ Logical

**Question # 2**

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

▶ **True** (Page 79)

▶ False

**Question # 3 of 10 ( Marks: 1 ) - Please choose one**

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

▶ **True** [click here for detail](#)

▶ False

**Question # 4 of 10 ( Marks: 1 ) - Please choose one**

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

▶ Planning

▶ **Perception** (Page 89)

▶ Learning

▶ Execution

**Question # 5 of 10 ( Marks: 1 ) - Please choose one**

In the worst case of semantic network, we may need to traverse the entire network and then discover that the requested info \_\_\_\_\_. ▶ **Does not exist** (Page 97)

▶ Exists

▶ Is incorrect

▶ Is correct

**Question # 6 of 10 ( Marks: 1 ) - Please choose one**

A statement in conjunctive normal form (CNF) consists of \_\_\_\_\_

▶ **ANDs of Ors.** (Page 107)

▶ ANDs

▶ Ors

▶ Ors of ANDs

**Question # 7 of 10 ( Marks: 1 ) - Please choose one**

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

▶ I,II,III

▶ I,III,II

▶ II,I,III

▶ **II,III,I (Page 84)**

**8**

Intelligence id the characteristics of:

▶ **Living things (Page 4)**

▶ All things

▶ None of them

▶ All of them

**Question # 9 of 10 ( Marks: 1 ) - Please choose one**

Intelligence is the ability to

▶ **Think / learn/Plan/ Schedule (Page 5)**

▶ Recognize / Remember

▶ Problem Solving

▶ All of the Above

**Question # 10 of 10 ( Marks: 1 ) - Please choose one**

Ability to tackle ambiguous and fuzzy problems demonstrate

▶ **Intelligence (Page 6)**

▶ Non intelligence behavior

▶ All of the given

▶ None of the given

**Question # 1 of 10 ( Marks: 1 ) - Please choose one**

Can we precisely define Artificial Intelligence?

▶ Yes We Can

▶ **No we cannot (Page 14)**

**Question # 2 of 10 ( Marks: 1 ) - Please choose one**

The traveling inside solution space requires something called

▶ Problem Statement

▶ Operands

▶ **Operators (Page 18)**

▶ Solution Space

**Question # 3 of 10 ( Marks: 1 ) - Please choose one**

In DFS node with the largest value of height will be at Priority

▶ **Maximum (Page 25)**

▶ Minimum

▶ Zero

▶ Least

4

Try to catch out own thoughts as they go by is

▶ **Introspection (Page 28)**

▶ Psychology

▶ Both of above

▶ None of the above

**Question # 5 of 10 ( Marks: 1 ) - Please choose one**

Classical way of problem solving

▶ GA

▶ **Generate and Test (Page 15)**

**Question # 6 of 10 ( Marks: 1 ) - Please choose one**

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

▶ Alternative function

▶ Recursive function

▶ Best function

▶ **Fitness function (Page 83)**

**Question # 7 of 10 ( Marks: 1 ) - Please choose one**

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

▶ Time

▶ Space

▶ Time and space both

▶ **All of the given (Page 37)**

**Question # 8 of 10 ( Marks: 1 ) - Please choose one**

Best first search is a greedy approach.

▶ **True (Page 47)**

▶ False



**Question # 9 of 10 ( Marks: 1 ) - Please choose one**

Answering the Sequence Problem need

▶ **Intelligence (Page 15)**

- ▶ Ability to make plan
- ▶ Ability to schedule
- ▶ None of the given

# Cs607 – Quizzes (Quiz No.2)

**Question # 1 of 10 ( Marks: 1 ) - Please choose one**

IF A THEN B This can be considered to have a similar logical meaning as the following:

- ▶ **A  $\rightarrow$  B** (Page 99)
- ▶ A  $\leftrightarrow$  B
- ▶ A  $\leftarrow$  B
- ▶ None of the given

**Question # 2 of 10 ( Marks: 1 ) - Please choose one**

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.

- ▶ Inference engine
- ▶ Knowledge engineer
- ▶ **Knowledge base**
- ▶ None of the given options

**Question # 3 of 10 ( Marks: 1 ) - Please choose one**

In the statement “IF A THEN B”, B is called

- ▶ Antecedent
- ▶ **Consequent** (Page 95)

**Question # 4 of 10 ( Marks: 1 ) - Please choose one**

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 \_\_\_\_\_.

- ▶ Recommendations
- ▶ **Directives** (Artificial Intelligence, 3/E) [Click here for detail](#)
- ▶ Relations
- ▶ None of the given options

**Question # 5 of 10 ( Marks: 1 ) - Please choose one** Expert system can be expressed as:

- ▶ It provides tools for the management, delivery, tracking, and assessment of various types of employee learning and training
- ▶ The set of business processes, culture, and behavior required to obtain value from investments in information systems
- ▶ Used for finding the optimal solution for a specific problem by examining a very large number or possible solutions for that problem
- ▶ **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** [click here for detail](#)

**Question # 6 of 10 ( Marks: 1 ) - Please choose one**

In general, the antecedent of a rule compares an object with a possible value, using an operator. ▶ **True** [click here for detail](#)  
▶ False

**Question # 7 of 10 ( Marks: 1 ) - Please choose one**

IF temperature is below 0 THEN weather is cold The above rule is used to represent \_\_\_\_\_

- ▶ Recommendations
- ▶ Directives
- ▶ **Relations (Page 96)**
- ▶ None of the given options

**Question # 8 of 10 ( Marks: 1 ) - Please choose one**

Which of the following is a valid example which represents a suitable antecedent in a rule?

- ▶ IF  $x > 3$
- ▶ **IF name is "Bob"**
- ▶ IF weather is cold
- ▶ All of the given options

**Question # 9 of 10 ( Marks: 1 ) - Please choose one**

From discipline of \_\_\_\_\_ we have the tools and techniques to investigate the human mind and ways to represent the resulting theories

- ▶ Computer Science
- ▶ Biology
- ▶ Mathematics
- ▶ **Psychology (Page 9)**

**Question # 10 of 10 ( Marks: 1 ) - Please choose one**

Intelligence is the characteristic of

- ▶ **Living being (Page 4)**
- ▶ All things
- ▶ None of them
- ▶ All of them

**Question # 1 of 10 ( Marks: 1 ) - Please choose one**

\_\_\_\_\_ AI actually tries to recreate the functions of the inside of the brain as opposed to simply emulating behavior

- ▶ Weak
- ▶ **Strong (Page 8)**
- ▶ Weak and Strong
- ▶ None of the given

**Question # 2 of 10 ( Marks: 1 ) - Please choose one**

\_\_\_\_\_ AI treats the brain as a black box and just emulates its functionality.

- ▶ **Weak (Page 8)**
- ▶ Strong
- ▶ Weak and Strong
- ▶ None of the given