

# BITI1113 ARTIFICIAL INTELLIGENCE

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**Time taken** 14 mins 43 secs

Question **1**

Complete

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1.00

Forward chaining systems are \_\_\_\_\_, where as backward chaining systems are \_\_\_\_\_.

Select one:

- ☐ goal-driven, data-driven
- ☐ data-driven, knowledge-driven
- ☒ data-driven, goal-driven
- ☐ knowledge-driven, goal-driven

Question **2**

Complete

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1.00

Semi-supervised learning is one of machine learning techniques which combines supervised and unsupervised learning types.

Select one:

- ☒ True
- ☐ False

^

## Question 3

Complete

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1.00

The situation in which a knowledge engineer meets a human expert for collecting the expert knowledge is known as the \_\_\_\_\_ process.

Select one:

- ☐ knowledge representation
- ☐ knowledge collection
- ☐ knowledge development
- ☒ knowledge acquisition

## Question 4

Complete

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4.00

Match the similar terms for the human brain and neural network.

processing

neurons ▼

output

dendrites ▼

input

perceptron ▼

weight

axon ▼

## Question 5

Complete

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1.00

An expert system is

Select one:

- ☐ a group of scientists who design computer programs
- ☐ a computer system that can feel emotions.
- ☒ a computer system that can answer questions like a human expert
- ☐ a computer method of producing new words

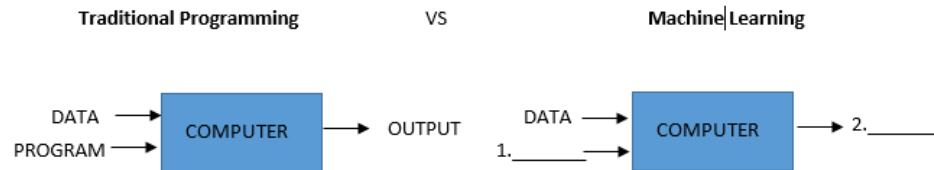
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Question **6**

Complete

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2.00

Based on the diagram below, identify 1. and 2.



Select one:

- ☐ 1. Program, 2. Data
- ☐ 1. Data, 2. Output
- ☒ 1. Output, 2. Program
- ☐ 1. Program, 2. Output

Question **7**

Complete

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1.00

Semantic Network represents

Select one:

- ☐ Syntactic relation between concepts/objects
- ☒ Semantic relation between concepts/objects
- ☐ Heuristic relation between concepts/objects
- ☐ All of the above

Question **8**

Complete

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1.00

In an expert system, the human expertise "is contained" in a \_\_\_\_\_

Select one:

- ☐ Database
- ☐ Model base
- ☒ Knowledge base
- ☐ All of the above

Question **9**

Complete

Marked out of  
2.00

An artificial neural network may consist of layers which are

Select one or more:

- ☐ output and hidden layers
- ☐ an input layer
- ☐ a hidden layer
- ☒ input and output layers
- ☐ an output layer
- ☒ input, hidden and output layers

Question **10**

Complete

Marked out of  
1.00

Decision Trees can be used for Classification Tasks.

Select one:

- ☒ True
- ☐ False

^

## Question 11

Complete

Marked out of  
3.00

Match the definition and the appropriate knowledge representation

Knowledge representation that show relationship among objects.

Semantic Network ▼

Knowledge representation that have name and slots

Frame ▼

Knowledge representation that have condition and action.

Production rules ▼

## Question 12

Complete

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1.00

In an expert system, the process of matching a question to the information in the knowledge base is called:

Select one:

- ☐ Reasoning
- ☐ Inclusion
- ☐ Deduction
- ☒ Inferencing

## Question 13

Complete

Marked out of  
2.00

Multi layer perceptron can solve linear ▼ problems, whereby single layer perceptron can only solve complex ▼ problems.

Question **14**

Complete

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1.00

\_\_\_\_\_ is the logical process of inferring unknown truths (in an expert system) from known conclusions by moving backward from a solution to determine the initial conditions and rules.

Select one:

- ☐ Forward chaining
- ☐ Hill-climb algorithm
- ☒ Backward chaining
- ☐ Backtracking algorithm
- ☐ None of the mentioned

Question **15**

Complete

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1.00

Instead of representing knowledge in a relatively declarative, static way (as a bunch of things that are true), a rule-based system represents knowledge in terms of \_\_\_\_\_ that tell you what you should do or what you could conclude in different situations.

Select one:

- ☒ A bunch of rules
- ☐ Summarized Text
- ☐ Raw Text
- ☐ Collection of various Texts

Question **16**

Complete

Marked out of  
1.00

The main components of the expert systems is/are \_\_\_\_\_

Select one:

- ☐ Inference Engine, Knowledge Base and Knowledge Engineer
- ☐ Inference Engine, Knowledge Base and Human Expert
- ☒ Inference Engine and Knowledge Base
- ☐ Inference Engine, Knowledge Base, Knowledge Engineer and Human Expert
- ☐ Knowledge Engineer and Human Expert

Question **17**

Complete

Marked out of  
1.00

Data that are processed during training in supervised learning are \_\_\_\_\_.

Select one:

- ☐ deleted data
- ☒ labelled data
- ☐ classified into several groups
- ☐ unlabelled data

Question **18**

Complete

Marked out of  
1.00

In supervised machine learning problems, \_\_\_\_\_ is/are provided during training process.

Select one:

- ☒ input and output
- ☐ input
- ☐ output
- ☐ input or output

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