This homework assignment is for students who do not have a Moodle account. Students with a Moodle account should complete the homework online. Please complete these questions in a separate document and email the answer to me by February 5 23:55.

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California State University at Bakersfield

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1

Marks: 1

A game of chess has how many possible moves (states of the game)? A carrot '^' can be used for exponentiation.

Answer:

2

Marks: 1

In order to complete the Turing test, a machine must possess which of the following:

Choose one answer.

- ○ a. Ability to communicate via language
- ○ b. Ability to reason, to answer questions based on stored knowledge
- ○ c. Ability to store what it knows and hears
- ○ d. All answers are correct

3

Marks: 1

Is a supermarket barcode scanner an example of AI?

Answer: ○ True

○ False

4 🖍   Examine the resources at your disposal (the internet). Can table tennis be played by computers/robots?

Marks: 1

Answer: ○ True

○ False

5 🖍   Current AI algorithms focus on the development of:

Marks: 1

Choose one   ○ a. Domain specific learners
answer.
○ b. None of the answers

○ c. General problem solvers

○ d. Passing the Turing test

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6 🖋️

Marks: 1

Warren McCulloch and Walter Pitts developed a model of neurons of the human brain in what decade:

Choose one answer.

- ○ a. 1960
- ○ b. 1940
- ○ c. 1920
- ○ d. 1930

7 🖋️

Marks: 1

Examine the resources at your disposal (the internet). Can AI translate from Swedish to English in real time?

Answer:

- ○ True
- ○ False

8 🖋️

Marks: 1

Consider breathing. It is not intelligent because it does not require thought. However, is it rational?

Answer: ○ True

○ False

9 🖋 A human is an example of a general problem solver.

Marks: 1

Answer: ○ True

○ False

10 🖋 Consider the following definition of AI.

Marks: 1

"Creating machines that perform functions that require intelligence when performed by people."

This definition falls into which category:

Choose one answer.
- ○ a. Acting human-like
- ○ b. Thinking rationally
- ○ c. Acting rationally
- ○ d. Thinking human-like

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11   Consider the following definition of AI.

Marks: 1

"The study of the computations that make it possible to perceive, reason and comprehend."

This definition falls into which category:

Choose one   ○ a. Thinking rationally
answer.
             ○ b. Thinking human-like

             ○ c. Acting rationally

             ○ d. Acting human-like

12   McCulloch and Pitts proposed a mathematical model for neurons that is:

Marks: 1

Choose one   ○ a. None of the answers
answer.
             ○ b. Random

             ○ c. Discrete

             ○ d. Continuous

13 🖉 Computing machinery and intelligence was written in 1950 by:

Marks: 1

Choose one answer.
- ○ a. Sheev Palpatine
- ○ b. Walter Pitts
- ○ c. Warren McCulloch
- ○ d. Alan Turing

14 🖉 Intelligence involves all of these except:

Marks: 1

Choose one answer.
- ○ a. Thinking
- ○ b. Learning
- ○ c. Understanding
- ○ d. Instinct

15 🖉 Fuzzy sets were proposed by:

Marks: 1

Choose one answer.
- ○ a. Alan Turing
- ○ b. Jean Luc Picard
- ○ c. Lofti Zadeh
- ○ d. Walter Pitts

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16 🖉   A computer can only do what a programmer tells it to do.

Marks: 1

Answer: ○ True

○ False

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17 🖉   Consider the following definition of AI.

Marks: 1

"The exiting new effort to make computers think ... machines with minds in the full and literal sense."

This definition falls into which category:

Choose one answer.

    ○   a. Acting human-like

    ○   b. Acting rationally

    ○   c. Thinking rationally

    ○   d. Thinking human-like

---

18 📝 Which person implemented the first computer program capable of playing a
complete chess game:

Marks: 1

Choose one   ○ a. Deep Blue
answer.
             ○ b. Alan Turing

             ○ c. Marvin Minsky

             ○ d. Gary Kasparov

19 📝 Consider blinking in response to a foreign object coming into contact with your eye.
Does this require intelligence?

Marks: 1

Answer: ○ True

               ○ False

20 📝 Evolutionary computation is based on:

Marks: 1

Answer:

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