Assignment 1

The questions in this assignment are recall based, essentially to remind you about the key points in the long history of the desire and quest for building thinking machines.

1) ________ is often referred to as the "first programmer" 1 point

- Charles Babbage
- Lady Ada Lovelace
- Gottfried Wilhelm von Leibniz
- Alan Turing

No, the answer is incorrect.
Score: 0
Accepted Answers: Lady Ada Lovelace

2) Who among the following was the first to build a calculating machine? 1 point

- Blaise Pascal
- Gottfried Wilhelm von Leibniz
- Thomas de Colmar
- Galileo Galilei

No, the answer is incorrect.
Score: 0
Accepted Answers: Blaise Pascal

3) What can you recall about the "Dartmouth conference" discussed in the lectures?  Please note that you will get a zero for even one false positive. 1 point

- It was organized in 1956 to develop ideas about "thinking machines"
- It was organized by John McCarthy, Alan Turing and Marvin Minsky at Dartmouth College
- The term "Artificial Intelligence" was coined at Dartmouth
- Turing devised the Turing test at Dartmouth

No, the answer is incorrect.
Score: 0
Accepted Answers:
It was organized in 1956 to develop ideas about "thinking machines"
The term "Artificial Intelligence" was coined at Dartmouth

4) Who said the following? - "Thoughts themselves are symbolic representations" 1 point

- Rene Descartes
- John McCarthy
- Galileo Galilei
- Gottfried Wilhelm von Leibniz

No, the answer is incorrect.
Score: 0
Accepted Answers:
Rene Descartes

5) The "Universal Grammar" is ______________________  1 point

- a theory by Chomsky that says: all humans are born with a common grammar
- a grammar not designed for any particular natural language
- a grammar that describes the structure of the Universe
- a worldwide standard for English grammar

...
6) Can you recall the picture, given in Figure 1, from the lectures? In what context was it used?  

7) The “Logic Theorist” was ____________________________  

8) Which of the following statements is/are true about “Physical Symbol System Hypothesis”?  

9) _______ was the first general-purpose mobile robot to be able to reason about its own actions.  

10) ELIZA ...

- a theory by Chomsky that says: all humans are born with a common grammar  
- a grammar not designed for any particular natural language

No, the answer is incorrect.  
Accepted Answers:  
- To express the richness, ambiguity and impreciseness of natural language  
- This natural language conversation scenario being proposed as an alternate Turing test

No, the answer is incorrect.  
Accepted Answers:  
- a computer program to find proofs  
- a program designed by Simon and Newell

No, the answer is incorrect.  
Accepted Answers:  
- It is an approach to AI, based on the assumption that all aspects of intelligence can be achieved by the manipulation of symbols  
- It was proposed by Allen Newell and Herbert A. Simon in the mid 1960s  
- The three laws of robotics were especially devised for physical symbol systems

No, the answer is incorrect.  
Accepted Answers:  
- ELIZA  
- SHAKEY  
- SHRDLU  

No, the answer is incorrect.  
Accepted Answers:  
- SHAKEY

No, the answer is incorrect.  
Accepted Answers:  
- SHAKKY

No, the answer is incorrect.  
Accepted Answers:  
- ELIZA
No, the answer is incorrect.
Score: 0
Accepted Answers:
was a simple natural language processing program written at MIT
could manipulate the users input to generate its responses

11) Which of the following address the question whether machines can be intelligent? 1 point
- Loebner Prize
- Turing Test
- Rorschach Test
- Winograd Schemas

No, the answer is incorrect.
Score: 0
Accepted Answers:
Loebner Prize
Turing Test
Winograd Schemas

12) As discussed in the lectures, which of the following is/are successfully deployed embodied robots in the current times? 1 point
- Nadine, the social companion
- AlphaGo, the playing companion
- Iva, the chatting companion
- Kirobo, the space companion

No, the answer is incorrect.
Score: 0
Accepted Answers:
Nadine, the social companion
Kirobo, the space companion

13) Which of the following AI agents demonstrated that machines can beat the best humans at chess? 1 point
- Deep Thought
- Blue Gene
- Deep Blue
- Chess Machine

No, the answer is incorrect.
Score: 0
Accepted Answers:
Deep Blue

14) As discussed in the "Artificial Intelligence: Search Methods for Problem Solving - Prologue", this course is about 1 point
- Problem solving
- Model Based Reasoning
- Experience Based Reasoning
- Memory Based Reasoning

No, the answer is incorrect.
Score: 0
Accepted Answers:
Problem solving
Model Based Reasoning

15) The motorcycle soon overtook the school bus because it was going too fast. What was going too fast? 1 point
- the motorcycle
- the school bus

No, the answer is incorrect.
Score: 0
Accepted Answers:
the motorcycle

16) The motorcycle soon overtook the school bus because it was going too slow. What was going too slow? 1 point
- the motorcycle
- the school bus

No, the answer is incorrect.
Score: 0
Accepted Answers:
the school bus

17) Suresh told Ramesh that he scolded him because he had hit the little dog. Who had hit the little dog? 1 point
- Suresh
- Ramesh

No, the answer is incorrect.
Score: 0
Accepted Answers:
Ramesh

18) Suresh told Ramesh that he scolded him because he had hit the little dog. Who did the scolding? 1 point
- Suresh
- Ramesh

No, the answer is incorrect.
Score: 0
Accepted Answers:
Ramesh
<table>
<thead>
<tr>
<th>19</th>
<th>Snigdha told Ramesh that she scolded him because she was in a bad mood. Who was in a bad mood?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Suresh</td>
</tr>
<tr>
<td></td>
<td>Ramesh</td>
</tr>
</tbody>
</table>

No, the answer is incorrect.
Score: 0
Accepted Answers:
Suresh

<table>
<thead>
<tr>
<th>20</th>
<th>The above five questions involve anaphora resolution. For a computer program to answer the above five questions correctly it would</th>
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<tbody>
<tr>
<td></td>
<td>need to be able to search over the internet for similar sentences</td>
</tr>
<tr>
<td></td>
<td>need to be able to parse the natural language sentences to extract the answers</td>
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<td></td>
<td>need a lot of common-sense knowledge about the world</td>
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<tr>
<td></td>
<td>need to understand the semantics of gender when talking about people and languages (in many Indian languages nouns and verbs have gender associated with them)</td>
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<tr>
<td></td>
<td>need to be able to use data science effectively</td>
</tr>
</tbody>
</table>

No, the answer is incorrect.
Score: 0
Accepted Answers:
need a lot of common-sense knowledge about the world
need to understand the semantics of gender when talking about people and languages (in many Indian languages nouns and verbs have gender associated with them)