

4. True or false: the only limitations to computation derive from limitations having to do with physical characteristics such as speed and size of memory storage.

6 mark questions

Answer two of the following questions in four-six paragraphs each (i.e. approximately 350 words each).

1. The problem with the Turing Test, according to many, is that it is "too behaviouristic". What is it for a definition to be behaviouristic? Are there any advantages to giving behaviouristic definitions of mental states? What, specifically, is wrong with a behaviouristic definition of intelligence?
2. Block claims that one problem with the Turing Test is that it fails to specify the capacities of the human judge. Explain in your own words just what is so problematic about this failure. How does it relate to the criticisms of the Loebner Prize made by Stuart Shieber?
3. Levesque says that in designing multiple-choice questions which test for intelligence, we want to avoid questions that can be answered using cheap tricks. What are cheap tricks, and why do we wish to avoid them? Would Levesque have similar problems with expensive tricks?

HUL 256: Critical Thinking
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Minor I

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Instructions

Total marks: 20

- This is an open-book, open-notes exam. You are not allowed to use any kind of electronic devices such as tablets, smartphones, etc.
- Make your answers as clear and precise as possible. Give concrete examples rather than vague generalisations. If you make a claim of the form "Turing says X", tell me where in the text he says it. Be concise, and avoid flowery language.
- You must express yourself clearly enough for me to interpret it without a great deal of effort, but (subject to this constraint) I won't deduct marks for spelling and grammar. If you need to use the occasional word or phrase in Hindi to make your point, go ahead.
- Feel free to write your answers in point format, as long as they form a coherent thread.

2 mark questions

Answer the following questions 2-3 sentences each (approx 50 words). In the True/False questions, answers will be judged on the quality of explanation:

1. Why does Turing say that we wish, in our definition of the word 'machine', to exclude "men born in the usual manner"?
2. True or false: Levesque believes that the problem with the Turing Test is that it is too behaviouralistic.
3. True or false: the Church-Turing thesis proves that any effective procedure can be implemented by a Turing Machine.