

2020 年度（令和 2 年度）帰国生・社会人入学試験（英語）

次の英文は人工知能（Artificial Intelligence: AI）について述べたものである。これを読んで下記の設問に答えなさい。解答は解答用紙の所定の欄に書きなさい。（①～④の数字は段落番号を表す。）

① When reporters interviewed me in the 1970s and '80s about the possibilities for Artificial Intelligence I would always say that we would have machines as smart as we are within my lifetime. It seemed a safe answer, since no one could ever tell me I was wrong. But I no longer believe ^(a)that will happen. One reason is that I am a lot older and we are barely closer to creating smart machines.

② I have not soured on AI. I still believe we can create very intelligent machines. ^(b)But I no longer believe that those machines will be like us. Perhaps it was the movies that led us to believe we would have intelligent robots as companions. Certainly most AI researchers believed that creating machines that were our intellectual equals or better was a real possibility. Early AI workers sought out intelligent behaviors to focus on — like chess or problem solving — and tried to build machines that could equal human beings in those endeavors. While ^(c)this was an understandable approach, it was, in retrospect, wrongheaded.

③ Humans are constantly learning. We spend years learning some seemingly simple stuff. Every new experience changes what we know and how we see the world. ^(d)Getting reminded of our previous experiences helps us process new experiences better than we did the time before. We spend twenty years (or more) learning how to speak properly and learning how to make good decisions and establish good relationships. But ^(e)we tend to not know what we know. We can speak properly without knowing how we do it. We don't know how we comprehend. We just do.

④ All this poses a problem for AI. How can we imitate what humans are doing when humans don't know what they're doing when they do it? ^(f)This conundrum led to a major failure in AI.

(John Brockman (ed.), *What have you changed your mind about?*, 2009 から一部内容を変更して引用。 Excerpt from "Specialized Intelligences" by Roger C. Schank from *What Have You Changed Your Mind About?* by John Brockman. Copyright (c) 2009 by Edge Foundation, Inc. Used by permission of HarperCollins Publishers.)

注

第②段落 soured on ～に興味を失う，失望する

companion: friend

chess チェス

endeavor 試み

in retrospect 今になって考えると

wrongheaded 誤った

第③段落 comprehend 理解する

第④段落 imitate まねる

設 問

問 1 下線部 (a) の “that” の指す内容を本文に即して日本語で説明しなさい。

問 2 下線部 (b) を和訳しなさい。

問 3 下線部 (c) の “this” の指す内容を本文に即して日本語で説明しなさい。

問 4 下線部 (d) を和訳しなさい。

問 5 下線部 (e) はどのようなことを言っているのか，第③段落から具体例を 2 つ挙げて日本語で説明しなさい。

問 6 下線部 (f) の “This conundrum” (このなぞ，難問) の内容を本文に即して日本語で説明しなさい。