Passage 8

Artificial Intelligence

A. Artificial intelligence or AI pertains to robotic intelligence. It is also the branch of computer science that aims to develop free-thinking machines. One of the aims of providing machines with artificial intelligence is to have machines that are able to analyze and do critical tasks, with minimum or even no human supervision. In this way, machines can be sent to do dangerous missions in place of humans.

B. As early as the 1960s, there have already been proponents of artificial intelligence. Herbert Simon, an expert on AI, believed that machines will ultimately be able to do what humans can do. He deduced that knowledge plays a main role in expertise. Simon worked with Allen Newell, a computer science researcher, and they were able to develop a simulation of man's problem-solving behavior. Although many do not think that machines will eventually equal man in intelligence, people like Hans Moravec and Ray Kurzweil believe that the human brain can be replicated. They claim that it is technologically possible to make hardware and software that duplicates the brain. Alan Turing, who is considered as the father of modern computer science, has also speculated that in the near future, machine intelligence can be judged according to how machines will behave.

C. The human brain is truly complex. It is not only about solving problems through learned facts or data. The brain also processes emotional response, critical thinking, common sense, planning and so much more. However, despite hopeful past and current theories, the complexity of the human brain has, until now, proved to be difficult to duplicate through artificial intelligence.

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Questions

Look at the following list of statements (A – F) about artificial intelligence.

Match each statement with the correct person (Questions 1 – 4).

A. Mentioned that robots can solve problems through analysis
B. Stated that a machine's intellect may be assessed by observing its behavior
C. Supposed that man's brain can be copied
D. Invented hardware and software that duplicated the human brain
E. Replicated man's analytical capabilities
F. Thought that the time will come when machines will be capable of doing everything that man does

1. Herbert Simon
2. Herbert Simon and Allen Newell
3. Hans Moravec and Ray Kurzweil
4. Alan Turing

Approach

STEP 1 Identify the keywords and question focus in each numbered statement in the list.

STEP 2 Find out the relevant information in the passage.

STEP 3 Match the numbered statement with its corresponding lettered item.

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