Can Robots Be Good Companions?

UNIT

4-①

Vocabulary

各語の意味をa.~ h.から選びなさい。

1. companion （　e.　） 2. relationship （　g.　） 3. repetitive （　c.　）

4. disgust （　a.　） 5. phenomenon （　d.　） 6. exhibit （　h.　）

7. posture （　b.　） 8. interaction （　f.　）

a. 嫌悪 b. 姿勢 c. くり返しの d. 現象

e. 仲間 f. 相互作用 g. 関係 h. （感情などを）表す

Grammar & Vocabulary

（　　）に適するものをa.~ d.から選びなさい。

1. Hiro is ( a. ) in studying robotics.

　a. interested b. interesting c. interest d. interestingly

2. There are some people who ( c. ) of robots as helpful machines.

　 a. regard b. consider c. think d. conceive

3. Do you know any robots ( a. ) can behave like human beings?

　a. that b. what c. when d. how

4. This humanoid robot doesn’t work ( b. ) dead battery.

　a. in spite of b. because of c. instead of d. in addition to

5. Using language is what distinguishes human beings ( d. ) the rest of creation.

　a. for b. of c. with d. from

Translation

英文を日本語にしなさい。

1. As you know, robots have become an important part of our everyday activities.

(知っての通り，ロボットは私たちの日々の活動の場に重要な位置を占めるようになった。　　　　　　　　　　　　　　）

2. There are as many different types of robots as there are tasks for them to perform.

　(果たすべきそれぞれの役割と同数の，それぞれに違ったタイプのロボットがある。　　　　　　　　　　　　　）

3. Language among humanoid robots is limited to what is programmed into them by engineers.

(ヒト型ロボット間の言語は，エンジニアによってプログラムされたものに限られている。　）

4. Certain robots exhibit some emotional behavior; however, a robot does not “feel” in any real sense.

　(情緒的な振る舞いを示すトボットもあるが，どんなロボットも心から 「感じる」ということはない。　)

Comprehension

英文を読んで，問いに答えなさい。

***Hiro:*** Could you please tell me, what can we learn from robots?

***Dr. K:*** As you know, robots have become an important part of our everyday activities. Some people think of robots as machines that can help us in our daily lives, while others think of them in the context of artificial intelligence. ( A ), there are as many different types of robots as there are tasks for them to perform. Some advanced robots are called humanoid robots because of their resemblance to human beings. ( B ), there are robots that can express and perceive emotions. What do you think? Could humanoid robots become just like humans in the future?

***Hiro:*** (1) Well, probably not. I can think of two reasons for why. First, we humans can use language. However, language among humanoid robots is limited to what is programmed into them by engineers, and even this language is often quite repetitive. Second, we have emotions. It is said that there are (2) six basic emotions common to all human cultures: fear, disgust, anger, surprise, happiness, and sadness. Moreover, the non-verbal communication of emotions is not a cultural phenomenon but a universal (3) one. Certain robots exhibit some emotional behavior; however, a robot does not “feel” in any real sense.

1. 本文中の（A），（B）に入る語の組み合わせとして適する番号を○でかこみなさい。

　(1) (A) Indeed (B) Thus (2) (A) However (B) Furthermore

　(3) (A) Furthermore (B) Indeed (4) (A) Indeed (B) Furthermore

2. ヒロが下線部(1)のように言っている理由を日本語で書きなさい。

　　人間には言葉と感情があるから。

3. 下線部(2)の具体例を日本語で書きなさい。

　　恐れ，嫌悪，怒り，驚き，幸福感，悲しみ

4. 下線部(3)が表しているものを文中の英語で書きなさい。

　　phenomenon

5. **Which of the following statements is true? Mark the right answer.**

　(1)( ) According to Dr. K, robots are useless machines in our daily lives.

　(2)( ㇾ ) Humanoid robots look like human beings, but they cannot express emotions.

(3)( ) Hiro thinks humanoid robots won’t become just like humans in the future.

　(4)( ) There are some robots which can feel just like human beings.