

V. 次の英文を読んで問1～3に答えなさい

Many molecules appear in two forms that mirror each other – just as our hands mirror each other. Such molecules are called chiral. In nature one of these forms is often dominant, so in our cells one of these mirror images of a molecule fits "like a glove", (A) contrast to the other one which may even be harmful. (1)Pharmaceutical products often consist of chiral molecules, and the difference between the two forms can be a matter of life and death – as was the case, for example, in the thalidomide disaster in the 1960s. That is why it is vital (B) be able to produce the two chiral forms separately.

－中略－

(2)The Laureates have opened up a completely new field of research in which it is possible to synthesize molecules and material with new properties. Today the results of their basic research are being used in a number (C) industrial syntheses of pharmaceutical products such (D) antibiotics, anti-inflammatory drugs and heart medicines.

(2001年ノーベル化学賞プレスリリースより抜粋)

mirror 映す, 反射する chiral 対掌性の, キラルな pharmaceutical 製薬の
thalidomide サリドマイド vital 生命の, 致命的な, 重大な laureate 受賞者
antibiotic 抗生物質 inflammatory 炎症性の

問1. 文中の(A)～(D)に入る最も適当な前置詞を書きなさい。

(各2点 計8点)

問2. 下線部(1)を和訳しなさい。(6点)

問3. 下線部(2)を和訳しなさい。(6点)