１　章　試　験

番号	氏名

１．次の語句の日本語訳を各々の括弧内に書きなさい（各２点）。

1. deoxyribonucleic acid	1.（　　）
2. double helix	2.（　　）
3. ribonucleic acid	3.（　　）
4. protein	4.（　　）
5. amino acid	5.（　　）
6. eukaryote	6.（　　）
7. Archaea	7.（　　）
8. prokaryote	8.（　　）
9. covalent bond	9.（　　）
10.electrostatic interaction	10.（　　）
11.hydrogen bond	11.（　　）
12.van der Waals interaction	12.（　　）
13.hydrophobic effect	13.（　　）
14.stereochemistry	14.（　　）
15.space-filling model	15.（　　）

２．四角の中に単語あるいは数字を選択肢から選び入れて文章を完成させなさい（各２点）。

A spark applied to the mixture initiates a chemical [　　] in which [　　] and [　　] combine to form water :

$$2H_2 + O_2 \longrightarrow 2H_2O$$

If the temperature of the system is held [　　], the [　　] of the system decreases because [　] moles of two differing reactants have been combined to form [　] moles of a single product. However, the reaction releases a significant amount of [　　] into the surroundings, and this heat will [　　] the entropy of the surrounding molecules by increasing their random movement. The entropy [　　] in the surroundings is enough to allow water to form spontaneously from hydrogen and oxygen.

語句選択肢：（複数回使用有）　increase, decrease, 1, 2, 3, 4, 5, enthalpy, entropy, molecules, atoms, hydrogen, water, reaction, dynamics, constant, different, heat, changes, system, unit, oxygen, process, bond