- 1. Please write down the cell types present after conjugation between cells with different F factors. (30 points)
 - a. $F^+ x F^-$
 - b. Hfr x F
 - c. F'xF
- 2. Please write down the complete word of the abbreviation "DNA". (10 points)
- 3. Please illustrate (1) the structure of nucleotides in DNA (2) the meaning of "antiparallel" and "complementary" in the structure of the DNA double-helix (60 points).