

## Scope of Specialized Subjects

### Master's Program

#### **【Biology】**

The subject areas include biochemistry, molecular biology, cell biology, physiology, metabolism, developmental biology, neuroscience, immunology, and bioinformatics.

Candidates are required to select and answer multiple questions from the aforementioned areas.

#### **【Chemistry】**

Chemistry (Organic Chemistry, Structural Biochemistry, Inorganic Chemistry, Polymer Chemistry, Physical Chemistry, etc)

Answer one compulsory question (General Chemistry), and two questions selected from eight questions in the above areas.

#### **【Engineering】**

Compulsory Questions: Mathematics (Calculus, Differential Equation, Linear Algebra, Fourier and Laplace Transforms, Probability and Statistics, etc.)

Elective Questions: There will be three questions from the scope of Basic Mechanics, Strength of Materials, Electromagnetics, Electrical Circuitry, Control Engineering, Information Engineering, and Computer Science. One question from these should be selected and answered

#### **【Clinical Laboratory Science】**

Pathophysiology, Public Health, Medical Engineering, Clinical Hematology, Clinical Pathology, General Laboratory Medicine, Clinical Biochemistry, Clinical Immunology, Chromosome and Gene Analysis, Blood Transfusion and Transplantation, Clinical Microbiology, Clinical Physiology, Medical Technology Management, Medical Safety Management

Select and answer 5 questions from the 12 questions in the above fields.

#### **【Social Medicine】**

Epidemiology, biostatistics, social and behavioral sciences, health policy management, environmental health, social medicine in general

Select question(s) from multiple questions related to the above topics and answer those selected ones.

#### **【Oral Health】**

Compulsory Questions: Dentistry (General Dentistry, Oral Health Science, etc.)

Elective Questions: There will be three questions from the general dentistry and oral health science, etc. Select one of them and answer it.