

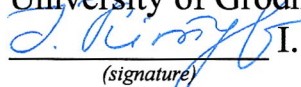
Education institution stamp



APPROVED

« 05 » 01 2016 г.

Chairman
of the Admissions Committee,
Rector of Yanka Kupala State
University of Grodno


(signature) I. Kiturka

THE LIST OF TOPICS OF EDUCATIONAL DISCIPLINES

for an additional interview with applicants
from among foreign citizens and stateless persons,
temporarily staying or temporarily residing in the Republic of Belarus,
for obtaining advanced higher education in the specialty

7-06-0511-01 «Biology»
(English language of tuition)

Name of the educational discipline	The list of topics of the educational discipline
Biology	1. Cell is a structural and functional unit of living organisms. Comparison of cells of prokaryotes and eukaryotes. 2. Prokaryotes: synthesis, structure, features of metabolism. Role in nature. 3. General characteristics of fungi. Distribution, features of structure and life activity of fungi. 4. Diversity of plants: algae, mosses, plaunas, horsetails, ferns, conifers, flowering plants. Evolution of life cycle and adaptations. 5. Diversity of flowering plants. Terrestrial and underground organs of flowering plant. Flower, seed and fruit: structure and functions. 6. Diversity of animals. Similarities of animals with other organisms and their differences. Tissues, organs and organ systems of animals. 7. Insects: external structure. Organ systems. Reproduction and types of development of insects. Behavior and diversity of insects 8. Structure and functions of human blood vessels in connection with the function performed (arteries, capillaries, veins). The structure of the human heart. Autonomy of the heart. Cardiac cycle.

	9. Laws of inheritance of traits established by G. Mendel. The concept of heredity and variability. Laws of G. Mendel 10. The concept of genetic code and its properties. Protein biosynthesis and its stages: transcription and translation. The role of nucleic acids in these processes.
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