



APPROVED
 « 01 » February 2021 y.
 Chairman
 of the Admissions Committee
 Rector of Yanka Kupala State
 University of Grodno
 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 second stage of higher education in the specialty
1-31 80 11 «Biochemistry»
 (English language of tuition)

Name of the educational discipline	The list of topics of the educational discipline
General biochemistry	<ol style="list-style-type: none"> 1. Nucleic acids, nucleotides and nucleosides: chemical structure and functions in living systems. 2. The principle of complementarity and its biological role. 3. Amino acids: classification, chemical structure and properties, biological role. 4. Proteins and peptides: classification, structural organization, physicochemical properties, biological role. 5. Protein biosynthesis: main stages, structural and functional organization of ribosomes. 6. Enzymes: classification, principles of structural organization, mechanism and kinetics of enzymatic catalysis. 7. General characteristics of lipids: classification, nomenclature and biological role. 8. Acylglycerols: chemical structure and properties. Phospholipids and glycolipids: chemical structure, properties and biological role. 9. Monosaccharides: classification, chemical structure, properties and biological role. 10. Oligo- and polysaccharides: chemical structure, properties and biological role.