**The list of questions of the theoretical cycle for student independent study IWS**

**Objects of Biotechnology**

**Almaty, 2021**

**The list of questions of the theoretical cycle for independent work of student IWS:**

IWS 1. The history of Animal Biotechnology.

IWS 2. Animal biotechnology and its applications.

IWS 3. The perspectives of Animal Biotechnology in future.

IWS 4. Animal reproductive technologies.

IWS 5. Animal Cloning.

IWS 6. Plant Transformation.

IWS 7. Genetically engineering methods in animal Biotechnology.

IWS 8. Transgenic animal.

IWS 9. Gene Therapy.

IWS 10. The use of animal stem cells in genetic engineering.

IWS 11. Animal Breeding and Biotechnology.

IWS 12. Biotechnology method used for improving of livestock*.*

IWS 13. Somatic cell nuclear transplantation.

IWS 14. Genetic engineering of Animal.

IWS 15. Animal breeding and Genetic engineering.

IWS 16. Embryo Cloning Techniques.

IWS 17. The principles of genetic engineering in Animal biotechnology.

IWS 18. Constructing of genes for expressing in mammalian cells.

IWS 19. Methods of introducing the foreign DNAs into animal cells.

IWS 20. Ethics in Animal Biotechnology. Technical and ethical issues of animal cloning and genetic engineering.