## JSC "ALT UNIVERSITY NAMED AFTER MUKHAMEDZHAN TYNYSHPAEV"

Department of "Construction Engineering"



Questions for citizens of the Republic of Kazakhstan entering for doctoral studies in groups of educational programs "D210 - Backbone networks and infrastructure"

## Interview questions

- 1. The purpose, object and subject of scientific research, scientific direction and its structural units.
- 2. Work on the current maintenance of bridge supports and bridge bed.
- 3. Assessment of the technical condition of bridges.
- 4. General characteristics of specific soils.
- 5. Foundations on weak clay water-saturated soils.
- 6. Fundamentals of similarity theory and dimension analysis in the study of
- 7. Mathematical methods of planning and conducting research of transport equipment.
- 8. Methods of analysis of factors of the production environment (working conditions of transport equipment).
- 9. Railway track on bridges and tunnels.
- 10. The main provisions of the design of bridges and pipes.
- 11. Operation of bridges and pipes on railways
- 12. Protection of foundations and foundations from surface and groundwater.
- 13. Features of construction of transport facilities in difficult climatic conditions: in mountainous terrain, in rocky soils.
- 14. Characteristics of standard and unified superstructures.
- 15. Construction of bridge spans of arched, frame and combined systems.
- 16. Ensuring the safety, continuity, continuity of train traffic.
- 17. Causes of deformations of buildings and structures in difficult ground

- 18. Foundations on technogenic soils.
- 19. Features of the calculation of the foundations of buildings on saline soils.
- 20. Features of construction of transport facilities in seismic areas.

The program of the entrance exam was discussed and received a positive decision at the meeting of the Department of «Construction Engineering», Protocol No.10 of 27 Mai, 2024.

Head of the Department «Magistral Engineering»	(Bon)	7110.10 01 27 Ma
Engineering»	- Ollay	K.S. Kulmanov

The program of the entrance exam was reviewed and recommended at the meeting of the Council of the Institute of «Transport Engineering», Protocol No 5a of Mai , 2024.

Chairman of the CI «Transport Engineering» \_\_\_\_