ESSAY TOPICS FOR APPLICANTS TO THE DOCTORAL PROGRAM OF THE GROUP OF EDUCATIONAL PROGRAMS 8D07208-«GEOLOGY AND EXPLORATION OF MINERAL DEPOSITS»

- 1. The structural structure of the sedimentary cover. The North-Ustyurt zone. South Ustyurt zone.
- 2. Oil and gas potential of Mesozoic deposits of Northern Ustyurt.
- 3. Industrial accumulations of oil and gas on the territory of Ustyurt in Jurassic sediments.
- 4. Industrial oil and gas content of Jurassic, Cretaceous oil and gas content of Paleogene deposits.
- 5. Geochemical zonality of reservoir waters.
- 6. Study of hydrogeological conditions on the territory of Ustyurt.
- 7. To give the clearest and most distinct idea about the process of migration and oil formation.
- 8. Migration, differentiation, accumulation of hydrocarbons.
- 9. Patterns of oil and gas migration.
- 10. Geochemical correlation of productive horizons by oil composition.
- 11. Prospects of the subduction (subduction-obduction) regime of oil origin.
- 12. Natural reservoir. Types of natural reservoirs.
- 13. Tectonics of Mangyshlak and Ustyurt.
- 14. The structures of the south-western part of Southern Mangyshlak (the area of Cape Peschani Kaundinskaya basin).
- 15. Tectonic scheme of Mesozoic deposits of Northern Mangyshlak.
- 16. Tectonics of the Ustyurt plateau.
- 17. The buried folded section of the Karpinsky line.
- 18. Tectonics of the Zhetybai-Ozenskaya monocline.
- 19. Cosmology, origin and general structure of the Earth.
- 20. The physical fields of the Earth and their informative value in the study of the deep structure of our planet.
- 21. Illogicality of existing judgments about the ways of metabolism between the deep layers of the Earth and its lithosphere (crust).
- 22. The relationship of asthenospheric activity and the development of tectonic structures in the lithosphere (Earth's crust). Features of plate tectonics in the history of the Earth.
- 23. The conventionality of the dismemberment of the Earth's crust and the lithospheric mantle of the Earth as the reason for the discrepancy in the essence of geological processes.
- 24. The main stages of thickening of the lithosphere (Earth's crust) from the position of plate tectonics.