Industrial ecology exam questions

- 1. Purpose and development of industrial ecology
- 2. Biosphere and its anthropogenic impact, global environmental problems
- 3. Sources of environmental pollution
- 4. Industrial production and eco-friendly technology
- 5. Non-waste production
- 6. Principles of zero-waste and waste hierarchy
- 7. Environmental factor and industrial metabolism
- 8. Dispersion of air pollutants
- 9. Man-made gas emissions, classification of pollutants
- 10. Greenhouse effect and greenhouse gases
- 11. London smog and Los-Angeles smog
- 12. Purification methods of gas waste
- 13. Biological methods of waste gas treatment
- 14. Absorption process in waste gas treatment technology
- 15. Adsorption process in waste gas treatment technology
- 16. Purification methods of waste gases with reagents
- 17. Characteristics of wastewater
- 18. Wastewater treatment methods
- 19. Mechanical treatment of wastewater
- 20. Biological treatment method of industrial wastewater
- 21. Physicochemical treatment method of wastewater
- 22. Characteristics of industrial and consumer solid wastes
- 23. Incineration and pyrolysis thermal treatment methods of solid wastes
- 24. Municipal solid wastes and its 5R management principles
- 25. Purification methods of drinking water
- 26. General principles of operation of the thermal power stations
- 27. Wastes received from fossil fueled power stations
- 28. Cooling towers. Open and closed cycle cooling in thermal power plant
- 29. Advantages and disadvantages of thermal power plant
- 30. Nuclear power station
- 31. Principles and types of operation of nuclear reactors at Nuclear Power Plants
- 32. Gas and liquid waste treatment at the Nuclear Power Plant
- 33. Characteristics of solid wastes of the Nuclear Power Plant
- 34. Advantages and disadvantages of the Nuclear Power Plant
- 35. Radioactive waste and characterizations of different radiation types
- 36. Chernobyl accident
- 37. Oil and gas extraction industry, oil characteristics
- 38. Environmental impact of petroleum
- 39. Azerbaijani oil
- 40. Gas deposits, biogeochemical and eco-toxicological characteristics
- 41. Sources and types of natural gas
- 42. Gas fields in Azerbaijan

- 43. Waste collection and classification in the oil and gas extraction industry
- 44. Methods to prevent oil spills
- 45. Characteristics of the oil refining industry and its impact on the environment
- 46. Oil refining, primary and secondary processing
- 47. Classification and treatment methods of waste in the oil refining industry
- 48. Characteristics and types of cracking processes
- 49. Petroleum-derived pollution
- 50. Main directions of the petrochemical industry
- 51. Methods for the treatment of industrial wastewater generated in the petrochemical industry
- 52. Pollution and hazards from plastic manufacturing
- 53. Products, chemical aspects of the chemical industry
- 54. Production of sulfuric acid and management of its waste
- 55. Environmental effects of fertilizers
- 56. Waste types of fertilizers
- 57. Impact of the mining industry on the environment
- 58. Metallurgy in Azerbaijan
- 59. Transport and its impact on the environment
- 60. Environmental impact forms of transport