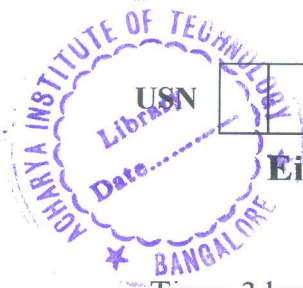


CBCS SCHEME

17MN834



--	--	--	--	--	--	--	--	--	--

Eighth Semester B.E. Degree Examination, July/August 2021 Environmental Impacts of Mining

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. Summarize the impacts of mining activities on Environmental Pollution. Justify your answer with a case study. (14 Marks)
b. What are the objectives of Sustainable development? (06 Marks)
- 2 a. Explain briefly biotic and abiotic interaction in "Pond" ecosystem. (12 Marks)
b. Outline the Ecological pyramid cycle for Hawk along, with neat sketch. (08 Marks)
- 3 a. What are Point and Non – point sources of Pollution? (04 Marks)
b. "Carbon – Monoxide is more dangerous than the carbon – dioxide", justify the statement. (08 Marks)
c. Explain the effects on human health due to the various types of air pollutants. (08 Marks)
- 4 a. What is Ozone layer? State the important reasons for its depletion. (04 Marks)
b. Explain suitable air pollution controlling equipments to filter particles of size PM_{10} (or) greater. (16 Marks)
- 5 a. What are the effects of water pollution due to mining activities? (06 Marks)
b. With a neat diagram, explain a process that shows the cycling of water in the ecosystem. (10 Marks)
c. What is meant by "Self – purification" of water? (04 Marks)
- 6 a. Summarise the causes and consequences of cultural eutrophication. (06 Marks)
b. Explain Downstream method of sewage treatment, with a suitable diagram. (14 Marks)
- 7 a. What are the sources of noise pollution due to mining activities? (06 Marks)
b. Mention the adverse effect of noise pollution on Human's Health and Safety. (14 Marks)
- 8 a. Define Ground Vibration. Discuss the effects of ground vibration. (10 Marks)
b. Explain in detail, how to measure ground vibration due to blasting. (10 Marks)
- 9 a. What are the features of a reclamation plan? (08 Marks)
b. Briefly explain the Unit operations in surface mine reclamation. (12 Marks)
- 10 a. What is an Environmental Impact Assessment? (02 Marks)
b. What are the procedures involved in doing an impact assessment for a surface mine? (14 Marks)
c. Mention the list of projects that require environmental clearance. (04 Marks)

* * * * *

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg, 42+8 = 50, will be treated as malpractice.