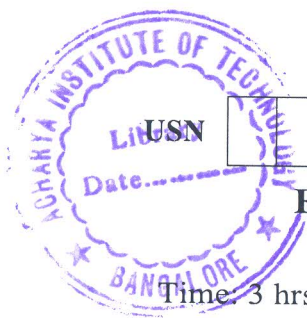


# CBCS SCHEME



15MN831

## Eighth Semester B.E. Degree Examination, June/July 2019 Environmental Impact of Mining

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 a. Explain the sustainable development. (08 Marks)  
b. Briefly explain the environmental impacts of mining. (08 Marks)

OR

- 2 a. Explain the ecosystem structures with figure. (08 Marks)  
b. Briefly explain the ecosystem functions. (08 Marks)

### Module-2

- 3 a. Explain the atmospheric inversions subsidence inversion, radiational inversion, advective inversion. (08 Marks)  
b. Describe the point sources of air pollution. (08 Marks)

OR

- 4 a. Explain the atmospheric stability unstable and stable in context with the dispersion of pollution in atmosphere with figure. (08 Marks)  
b. Briefly explain the control measures extraction suppression and consolidation of dust. (08 Marks)

### Module-3

- 5 a. Explain the sources of water pollution. (08 Marks)  
b. Explain Biochemical oxygen Demand (BOD) and its role in water pollution. (08 Marks)

OR

- 6 a. Explain Chemical Oxygen Demand (COD) and its role in water pollution. (08 Marks)  
b. Explain the Acid Mine Drainage (AMD) and its preventive and control measures. (08 Marks)

### Module-4

- 7 a. Explain various noise sources and their level in a mine of opencast working. (08 Marks)  
b. Explain the remedial measures to control the noise pollution in a mine. (08 Marks)

OR

- 8 a. Explain the ground vibration from blasting with measurement and recording system. (08 Marks)  
b. How ground vibration levels are predicated in a mine. (08 Marks)

### Module-5

- 9 a. Explain the land degradation due to mining. (08 Marks)  
b. Explain the physical and biological reclamation to restore the land. (08 Marks)

OR

- 10 a. Explain the laws related to mining environment. (08 Marks)  
b. Explain the environment Impact Assessment of mining projects. (08 Marks)

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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.