



10MN842

**Eighth Semester B.E. Degree Examination, June/July 2019**  
**Mine Environment and Ecology**

Time: 3 hrs.

Max. Marks:100

**Note:** Answer any FIVE full questions, selecting atleast TWO questions from each part.

**PART - A**

- 1 a. Explain Energy flow in Ecosystem. (06 Marks)  
b. Explain Ecological pyramid. (07 Marks)  
c. Explain Hydrological cycle, with neat sketch. (07 Marks)
- 2 a. Explain the factors influencing nature and extent of environment impacts. (12 Marks)  
b. Explain different sources of visual impacts. (08 Marks)
- 3 a. Explain about Dust formation and its movement. (10 Marks)  
b. Explain about Measurement and Monitoring of Air Pollutants. (10 Marks)
- 4 Explain :  
a. Acid Mine Drainage.  
b. Heavy Metal pollution.  
c. Euthrophication.  
d. Deoxygenation. (20 Marks)

**PART - B**

- 5 a. Explain control of Air particulates by point source. (10 Marks)  
b. Write short note on Water treatment. (10 Marks)
- 6 a. What are the sources of Noise and how to control it? (10 Marks)  
b. How to measure Ground vibrations? What are the effects of Ground vibrations? (10 Marks)
- 7 What is Air blast? What are its causes? What are its effects and what are the remedial measures to be taken to prevent it? (20 Marks)
- 8 a. How is Reclamation of a Mine planned and what are the problems in Reclamation. (10 Marks)  
b. Write short note on "Environmental Impact Assessment". (10 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.