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**Eighth Semester B.E. Degree Examination, Aug./Sept.2020**  
**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. Define Ecology. Outline the subdivision of Ecology system. (06 Marks)  
b. What is meant by Soil Erosion? Explain Hydrological cycle with neat sketch. (14 Marks)
- 2 a. Define Visual Impact. Explain the sources of visual impact. (10 Marks)  
b. Explain the factors influencing the nature and extend of environmental impact. (10 Marks)
- 3 a. Define Point source and Non point sources. Explain the nature and effects of the main pollution. (08 Marks)  
b. Explain the methods of measurements of Air pollution. (12 Marks)
- 4 a. Explain the various types of water in the mineral industries. (08 Marks)  
b. Explain Acid Mine Drainage and De – Oxygenation. (12 Marks)

**PART – B**

- 5 a. Explain the methods of maintaining samples for water control. (10 Marks)  
b. Explain the control of particulate of point source and non – point sources. (10 Marks)
- 6 a. Explain the nature of ground vibration for blasting. (12 Marks)  
b. Explain the effects of ground vibration. (08 Marks)
- 7 a. Explain the causes of Oil blast. (08 Marks)  
b. Explain the effects of air blast and what are the remedial measures of air blast? (12 Marks)
- 8 a. What is E.I.A? Explain the Environmental Management Plant. (08 Marks)  
b. What are the problems associated with tailing dams? What are the advantages and disadvantages of tailing dams? (12 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.