15MN831

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# Eighth Semester B.E. Degree Examination, November 2020
## Environmental Impacts of Mining

Time: 3 hrs.

Max. Marks: 80

*Note: Answer any FIVE full questions irrespective of modules.*

### Module-1

1   Define sustainable development. Explain the environmental impacts of mining and its associated activities. **(16 Marks)**

2   Define ecology. Explain the structures and functions of ecosystem. **(16 Marks)**

### Module-2

3   Define air pollution. Explain the point and non-point sources of air pollution. **(16 Marks)**

4   Explain the sources of air pollution. Explain the control measures, extraction and consolidation of dust. **(16 Marks)**

### Module-3

5   a.  Define water pollution. With a neat flow chart explain global hydrological cycle. **(08 Marks)**
    b.  Explain Eutrophication, Deoxygenation and Acid mine drainage. **(08 Marks)**

6   a.  Explain pH, turbidity, oil and grease, nitrates impacts on water pollution. **(08 Marks)**
    b.  What is heavy metal pollution? Explain the preventive and control measures of water pollution. **(08 Marks)**

### Module-4

7   a.  Define a Noise. Explain the various problems of noise pollution and list the remedial measures. **(08 Marks)**
    b.  Define ground vibration. Explain the effects of ground vibration. **(08 Marks)**

8   a.  Explain the various methods of reducing noise sources. **(08 Marks)**
    b.  Explain the various methods of measurements recording of vibration. **(08 Marks)**

### Module-5

9   a.  What is land degradation? Explain the various physical and biological reclamation. **(08 Marks)**
    b.  Explain the procedure for EIA of mining projects. **(08 Marks)**

10  a.  Explain the Laws and Regulation for land acquisition process. **(08 Marks)**
    b.  Explain the principles of Corporate Social Responsibility. **(08 Marks)**

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