

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2023****Subject Code:3162213****Date:10-07-2023****Subject Name:Environment Management****Time:10:30 AM TO 01:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

| | | MARKS |
|------------|---|--------------|
| Q.1 | (a) Define the term Ecology. Explain its principles and basic concepts. | 03 |
| | (b) Discuss the structural and functional aspects of the ecosystem. | 04 |
| | (c) Explain the environmental impacts of mining and associated activities. | 07 |
| Q.2 | (a) Discuss the role of different kinds of organizations in environmental administration. | 03 |
| | (b) Explain the physical and biological reclamation. | 04 |
| | (c) Explain the principle and environmental impacts of mine closure. | 07 |
| | OR | |
| | (c) Explain the different methods to reduce blast vibrations. | 07 |
| Q.3 | (a) Discuss the basic concepts and principles of environment management. | 03 |
| | (b) Describe the sources of noise pollution. | 04 |
| | (c) Explain the different techniques for control of noise pollution. | 07 |
| | OR | |
| Q.3 | (a) Discuss the important water quality parameters. | 03 |
| | (b) Describe the sources of water pollution in mining areas. | 04 |
| | (c) Explain the preventive and control measures for water pollution. | 07 |
| Q.4 | (a) Discuss why one should be concerned about air pollution. | 03 |
| | (b) Describe the sources of vibration in mining. | 04 |
| | (c) Explain the sources of air pollution. | 07 |
| | OR | |
| Q.4 | (a) Define air pollution. Discuss the classification of air pollutants. | 03 |
| | (b) Describe the atmospheric composition and meteorology of air pollution. | 04 |
| | (c) Explain the preventive measure to minimize air pollution in mining industries. | 07 |
| Q.5 | (a) Discuss the land degradation due to mining activities. | 03 |
| | (b) Describe the basic concepts and principles of corporate social responsibility. | 04 |
| | (c) Explain the necessity and objective of reclamation. | 07 |
| | OR | |
| Q.5 | (a) Discuss the basic concepts of land acquisition and revenue. | 03 |
| | (b) Describe the various stages for process of EIA. | 04 |
| | (c) Explain the EIA of mining projects. | 07 |
