

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER– VII (New) EXAMINATION – WINTER 2019

Subject Code: 2172203**Date: 28/11/2019****Subject Name: Environment Management In Mine****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.

| | MARKS |
|--|--------------|
| Q.1 (a) Discuss the environmental impacts of mining projects. | 03 |
| (b) Discuss the objective of mine closure. | 04 |
| (c) What is acid mine drainage? Explain its active treatment. | 07 |
| Q.2 (a) Explain the various post mining land uses. | 03 |
| (b) Explain the procedure for the site selection for waste rock mill tailing disposal. | 04 |
| (c) How ecological restoration of mine is carried out? Explain in brief. | 07 |
| OR | |
| (c) Explain the procedure for getting environmental clearance for mining project. | 07 |
| Q.3 (a) Describe the causes of noise pollution on surrounding environment. | 03 |
| (b) Discuss the importance of mine reclamation. | 04 |
| (c) Explain passive treatment of acid mine drainage. | 07 |
| OR | |
| Q.3 (a) Define the following term: Reclamation, Restoration and Rehabilitation. | 03 |
| (b) Discuss the selection of post mining land use. | 04 |
| (c) Explain risk and socio economic response of mine closure. | 07 |
| Q.4 (a) Describe the relevant provisions for the environment applicable to mining project. | 03 |
| (b) Discuss the closure of mine entries. | 04 |
| (c) Explain the various provisions of environmental protection act, 1986. | 07 |
| OR | |
| Q.4 (a) Discuss the importance of natural restoration. | 03 |
| (b) Describe the various management principles of post mining land use. | 04 |
| (c) Explain environment management plan in brief. | 07 |
| Q.5 (a) Discuss the importance of ecological restoration. | 03 |
| (b) What is waste Rock Mill Tailing disposal? Which factors should be considered during the selection of site for waste rock disposal? | 04 |
| (c) Explain the various potential environment impact of waste rock mill tailing disposal. | 07 |
| OR | |
| Q.5 (a) Discuss the various inventory of pre-mining land use. | 03 |
| (b) What is Rock Mill Tailing disposal? Explain the potential environment impact of mill tailing disposal. | 04 |
| (c) Explain environment impact assessment and its prediction in brief. | 07 |
