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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) EXAMINATION - WINTER 2018

Subject Code: 2172203	Date: 26/11/2018
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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) (b)	Discuss the environmental impact of mining projects on its various stages. Discuss the various post mining land uses techniques.	03 04
	(c)	What is Acid mine drainage? Explain active methods of its treatment.	07
Q.2	(a)	Define the following term: reclamation, restoration & rehabilitation.	03
	(b) (c)	Explain the risk and socio economic response of mine closure. Explain the various potential environment impacts of rock and mill tailing disposal.	04 07
		OR	
	(c)	Explain environment impact assessment and its prediction.	07
Q.3	(a)	Describe the function of environment management plan.	03
	(b)	Discuss the parameters are to be considered for site selection of waste disposal.	04
	(c)	Describe the procedure for getting environmental clearance of mining project.	07
		OR	
Q.3	(a)	Discuss the importance of environment management plan of mine.	03
	(b)	Discuss the parameters are to be considered for site selection of rock and mill tailing disposal.	04
	(c)	Explain passive treatment of acid mine drainage.	07
Q.4	(a)	Discuss the importance of ecological restoration.	03
	(b)	Describe the various management principles of post mining land use.	04
	(c)	Explain the various provisions of environmental protection act, 1986. OR	07
Q.4	(a)	Discuss the importance of natural restoration.	03
	(b)	Discuss the selection of post mining land use.	04
	(c)	Explain the technology used for acid mine drainage for wetlands.	07
Q.5	(a)	Discuss the causes of noise pollution on mining environment.	03
	(b)	Discuss the importance of mine reclamation.	04
	(c)	Explain how ecological restoration of mine is carried out. OR	07
Q.5	(a)	Describe the various inventory of pre-mining land use.	03
Ų.S	(a) (b)	Discuss the closure of mine entries.	03 04
	(c)	Write a note on restoration techniques of mining	07
