## **GUJARAT TECHNOLOGICAL UNIVERSITY** BE - SEMESTER-VI • EXAMINATION – WINTER 2013

Subject Code: 162205 Date: 04-12				3
•			ne: Mine Surface Environment pm to 05:00 pm Total Marks: 70	)
Instru	ction	is:		
	2.	Ma	empt all questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.	
Q.1		(a) (b)	Explain Environmental issues in mineral industry. Describe ecological and sociological impacts of mine environment.	07 07
Q.2		(a)	What are the factors responsible for degradation of soil? Explain the reclamation of derelict Lands.	07
		(b)	What is demography? Explain how the mine environment affects the human population? <b>OR</b>	07
		(b)	What are the requirements of landscape planning? Add a note on land capability mapping.	07
Q.3		(a) (b)	What is acid mine drainage? Explain formation of AMD. What is the land use pattern? Give the assessment of impacts of land use	07 07
		(0)	OR	07
Q.3		(a)	Explain the impacts of mining activities on surface and sub surface water bodies.	07
		(b)	Which environmental problems are found in contour-strip mining? Add a note on stabilizing The debris dumps in this mining operation.	07
Q.4		(a)	What is airborne repairable dust? Explain its harmful physiological effects and control.	07
		(b)	Explain flora and fauna impacts on mine environment.	07
			OR	
Q.4		(a)	Write a short note on environmental management in mining operation.	07
Q.4		(b)	Write a note on underground mining hazards in India.	07
Q.5		(a)	Write a note on primary causes of Fly rock.	07
		(b)	Explain environment aspects of air blast and ground vibration.	07
			OR	
Q.5		(a)	What are the anthropogenic changes in ecosystem? Explain with suitable example.	07
		(b)	How is the intensity of noise measured? In what way is a miner affected by Exposure to loud noises over long years?	07

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