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b)

c)

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(Following Paper ID and Roll No. to be filled in your Answer Book) **PAPER ID: 0025** Roll No. B. Tech. (SEM. IV) EXAMINATION, 2006-07 **ENGINEERING - GEOLOGY** Time: 2 Hours [Total Marks: 50 Note: Attempt all questions. Attempt any four parts of the following: 3.5×4 What do you understand by building stones? a) Explain the true dip and the apparent dip. **b**) Define the following terms: Hardness Lustre ii) i) iv) Cleavage Fracture What are common rock forming minerals? d) Explain the following: Stratification (ii)Graded Bedding (iii) Current Bedding (iv) Strike What are different Rock Forming minerals? f) Attempt any four parts of the following: 3×4 What are folds? Describe different types of a) folds.

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What is an unconformity? Describe different

Distinguish between joints and faults.

types of unconformities.

	d)	Discuss the following terms:	
	<i>a</i>)	i) Focus ii) Epicentre	
		iii) P waves iv) S-waves	
	e)	What do you understand by seismic zones of India?	
	f)	Define earthquake and Tsunamic.	
3	Atter	mpt any two parts of the following:	6×2
	a)	What are land slides? Discuss briefly their types, causes, and preventive measures.	
	b)	Explain the following	
		i) Aquifer	
		ii) Aquiclude	
		iii) Hydrologic cycle.	
	c)	Discuss ground water hazards in engineering projects.	
4	Atter	mpt any two parts of the following:	×2
	a)	What are the geological investigations necessary for the alignment of hill roads?	
	b)	Give an account of geological investigation of Dam.	
	c)	What are the principles of geophysical exploration? Discuss any one method used for interpreting subsurface structures.	