		Sem B.E. CIVIL (New Course)	•		
		= SUMMER 2015 ===			
	ENGINEERING GEOLOGY				
l.	-	Give an account of the geological work of River. Describe	3		
		various GeomoRpHIc features created by the river.	(14)		
		OR			
2.	(a)	What is Stratigraphy? Describe various principles of			
		stratigraphic correlations.			
	(b)	Discuss the Plate Tectonic Theory, along with various			
		types of plate margins.	(14)		
3.		What is a Mineral? Describe various physical properties			
		of Minerals.	(13)		
		OR			
4.		What is Rock Cycle? Describe the formation of Igneous			
		rocks in nature along with their tabular classification.	(13)		
5.		What are Folds? Describe various types of fold and their			
		importance in civil engineering projects.	(14)		
		OR			
6.	(a)	Dip of a limestone bed at a tunnel site is found to be 1 in			
	E.	2.5 along N 20°W. Find its apparent dip along N 60°W.			
		State strike, Scale: 1 unit = 1 cm.	(7)		
,	(b)	A sandstone bed is dipping at 30° east on a sloping groun	d		
Δ.		of 10° west. Its outcrop was measured as 160 m wide.			
B		Find the true and vertical thickness of sandstone.	(7)		
1 5	, , , , , , , , , , , , , , , , , , ,	Scale: $1 \text{ cm} = 40 \text{ m}$.	(7)		

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7.	What is an earthquake? Discuss the cause of its origin.	
41	Add a note on characteristics of the Seismic Waves.	(12
3	OR	(13)
8.	What are Landslides? Discuss various causes of landslid	les
	and methods of their prevention.	(13)
9.	Discuss the following:	(13)
	(a) Types of Aquifer	
	(b) Porosity and Permeability	
	(c) Zones of groundwater occurrence.	(13)
	OR	, · ·)
10.	Discuss how geophysical method of Seismic exploration	
	helps in site investigation for civil engineering projects.	(13)
11.	Write short notes on the following:	3, 2
	(a) Rock Quality Designation	
,i	(b) Road Metals	
6	(c) Railway Ballasts.	(13)
	OR	
12.	Describe the geological factors that influence the stability	-
6.	and safety of a dam project.	(13)