Reg. No.										
----------	--	--	--	--	--	--	--	--	--	--



III SEMESTER B.TECH. (CIVIL ENGINEERING) END SEMESTER EXAMINATIONS, NOV/DEC 2017

SUBJECT: ENGINEERING GEOLOGY [CIE 2105]
REVISED CREDIT SYSTEM
(MAKE-UP EXAM)

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- Missing data may be suitably assumed.
- Draw neat sketches wherever necessary

Q.No	Questions	Marks	СО	
1A.	What are the physical properties used in the identification of minerals? Explain fracture and cleavage.	6	1	
1B.	Describe some important differences between oceanic crust and continental crust.	4	1	
2A.	Explain the different types of textures seen in igneous rocks.	5	1	
2B.	Describe the different type of structures seen in sedimentary rocks.	5	1	
3A.	What are the different crystal systems? Explain the Orthorhombic crystal system with suitable examples.	5	1	
3B.	Explain the different layers of a soil profile. What are the important factors resulting in soil formation?	5	2	
4A.	What is water quality? Explain the reasons for groundwater contamination.			
4B.	Explain in detail the different stages of a river system.			
4C	Write a short note on Mural joints	2	3	
5A.	What are the preliminary and detailed surveys that a civil engineer must undertake before construction of a tunnel?	4	4	
5B.	Differentiate between the red and black soils of India on the basis of their rock types, occurrence and chemical properties.	4	2	
5C.	Write a short note on Slickensides.	2	3	

CIE-2105 Page 1