

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



MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

A Constituent Institution of Manipal University

III SEMESTER B.TECH. (CIVIL ENGINEERING)
END SEMESTER EXAMINATIONS, NOV/DEC 2016
SUBJECT: ENGINEERING GEOLOGY [CIE 2105]
REVISED CREDIT SYSTEM
(/ / 2016)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Draw a neat diagram if necessary

1A.	Explain with a neat diagram the rock cycle and its process.	(4)
1B.	With a neat diagram explain the key characteristics of the different layers of the earth	(3)
1C.	Write a short note on rock forming minerals	(3)
2A.	Explain the theory of plate tectonics activities	(4)
2B.	Write a short note on oceanology and its importance	(3)
2C.	Differentiate between Fracture and cleavages in a minerals	(3)
3A.	Explain the physical weathering and its feature on rocks	(4)
3B.	Define and explain the Texture and Structure in igneous rocks.	(3)
3C.	Explain the Factors affecting the Formation of Joints	(3)
4A.	Define a Crystal? Explain the Hexagonal crystal system with a neat diagram	(4)
4B.	Write a note on stream maturity? Explain the Formation of an ox-bow lake	(3)
4C.	Explain how hurricane are formed?	(3)
5A.	What are the steps involved in selection of sites for bridges and highways construction	(3)
5B.	What are the problem associated with ground water pumping	(3)
5C.	With a neat diagram explain any two primary geological structures. i. Cross bedding ii. Graded bedding iii. Ripple marks iv. Mud cracks	(4)