

Reg. No.

**MANIPAL INSTITUTE OF TECHNOLOGY****MANIPAL***(A constituent unit of MAHE, Manipal)*

III SEMESTER B.TECH. (Civil Engineering) END SEMESTER EXAMINATIONS (MAKE-UP)

SUBJECT: ENGINEERING GEOLOGY [CIE 2105]

Date of Exam: 31/12/2018

Time of Exam: 9-12

Max. Marks: 50

Instructions to Candidates:

- ❖ Answer ALL the questions & missing data may be suitably assumed
- ❖ Draw neat sketches using pencil wherever necessary

1A.	Explain any three important physical properties of a rock-forming minerals with examples.	(04)	CO1, CO2
1B.	With a neat diagram explain the internal structure and composition of earth	(06)	CO1, CO2
2A.	How is the geological time scale divided up? Write a note on Mesozoic Era	(03)	CO1, CO2
2B.	Explain Non Clastic and Clastic textures of Sedimentary Rocks	(03)	CO1, CO2
2C.	Name and explain any four Sedimentary Structures of geotechnical importance	(04)	CO3
3A.	Write a note on Texture of igneous rocks with special reference to geotechnical investigations.	(03)	CO4
3B.	Write short notes on Recumbent folds and Chevron folds	(03)	CO2
3C.	Explain the zones of ground water with a neat diagram	(04)	CO3
4A.	What is GIS? Explain the application of GIS in transportation engineering.	(04)	CO5
4B.	What is meant by drainage basin, with a neat diagram explain any two types of drainage pattern.	(03)	CO3, CO4
4C.	What are the main causes of landslides? How can they be prevented?	(03)	CO3, CO4
5A.	What are the causes of faults? Explain Convergent Boundary, Divergent Boundary and Transform Fault.	(06)	CO2
5B.	What are the factors responsible for the formation of soil? How can soil be conserved?	(04)	CO4