Time: 3 hrs.



17CV35

Max. Marks: 100

hird Semester B.E. Degree Examination, July/August 2022 **Engineering Geology**

Note: Answer any FIVE full questions, choosing ONE full question from each module.

1	a.	Describe internal structure of earth with neat sketch.	(10 Marks)
	b.	Discuss Mineral Hardness, Lustre, Colour, Streak and Specific gravity.	(10 Marks)

What is geology? Discuss the importance of geological concepts in civil engineering

Define minerals. Write description of minerals: Asbestos, calute, Hematite and Galena.

(12 Marks)

Module-2

With a neat sketch, explain forms of igneous rocks. (10 Marks) 3 a. Write the descriptions of rocks granite sandstone, marble, slate, basalt. (10 Marks) b.

With a neat sketch, explain parts and types of faults. Write the differences between Joints a. (12 Marks)

Write briefly geological requirements to selecting site for Dam. b.

(08 Marks)

Module-3

What is Earthquake? Explain causes and Earthquake resisting structures. (10 Marks) 5 a. (05 Marks) Define weathering and its types. b.

Write short note on Tsunami. c.

(05 Marks)

With a neat sketch, explain seismograph and write seismic zones of India. (10 Marks) 6 a.

Explain briefly flood and drainage pattern. b.

(10 Marks)

Explain hydrological cycle and their process. (10 Marks)

Discuss geological and geophysical investigation of ground water by electrical resistivity (10 Marks) method.

With a neat sketch, explain types of aquifers. (10 Marks)

Write the different rocks as aquifers. Explain various methods for artificial recharge of b. (10 Marks) water.

Module-5

What is GIS? Discuss the components of GIS. (10 Marks) 9 a.

OR

Define Remote Sensing. Write short note on electromagnetic spectrum. b.

(10 Marks)

Discuss briefly toposheet and GPS. 10

Explain impact of mining on environment.

CMRIT LIBRARY (10 Marks) BANGALORE - 560 037 (10 Marks)