nt Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining plans page. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.
te : 1. On completing your answers, compulsorily draw diagonal cross lines on the reman.  2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42
te : 1. On completing your answers, compulsorily draw diagonal cross lines on the reman.  2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42
<ul> <li>te: 1. On completing your answers, compulsorily draw diagonal cross line</li> <li>2. Any revealing of identification, appeal to evaluator and /or equation</li> </ul>
<ul> <li>te: 1. On completing your answers, compulsorily draw diagonal cross line</li> <li>2. Any revealing of identification, appeal to evaluator and /or equation</li> </ul>
nt Note: 1. On completing your answers, compulsorily draw diagonal crops. 2. Any revealing of identification, appeal to evaluator and /or eq.
nt Note: 1. On completing your answers, compulsorily draw of 2. Any revealing of identification, appeal to evaluato
nt Note: 1. On completing your answers, compulse 2. Any revealing of identification, appeal t
nt Note: 1. On completing your answers 2. Any revealing of identification
nt Note: 1. On completing yo
nt Note: 1. On com
nt Note:

STON A INSTITU	CBCS SCHEME	
usn iii		18CV36
Third	Semester B.E. Degree Examination, June/July 2023  Engineering Geology	

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module. Module-1 Explain the parts of the interior of the earth with neat sketches. (12 Marks) Describe the role of Engineering Geology in the field of Civil Engineering projects. (08 Marks) Critically examine the difference between the Rock forming minerals and arc forming 2 (06 Marks) b. Differentiate between Lustre and Diaphaneity with examples. (04 Marks) Explain the physical properties of the following minerals and mention their uses: (10 Marks) iii) Magnetite i) Quartz ii) Calcite Module-2 What are Igneous rocks? How are they formed and classify the different types of Igneous (10 Marks) rocks based on their mode of origin. b. Describe the different types of concordant Igneous Intrusion with neat sketches. (10 Marks) Explain the origin, mineralogical composition, crashing strength, structure and mention their (12 Marks) iii) Sandstone iv) Gneiss ii) Basalt i) Granite b. Briefly explain the classification of soil profile with neat sketches. (04 Marks) c. Explain the characteristics of rocks as materials for construction. (04 Marks) Module-3 a. What are joints classify different types of joints with neat sketches and mention their (10 Marks) engineering uses. b. Describe the different types of uncertainty with neat sketches and mention the engineering (10 Marks) considerations.

- Explain the parts of the dam with neat sketches? Which are the preventive measures have to (10 Marks) be taken for the selection of Dam site. b. Explain the Rock Quality determination and rock structural ratings. (04 Marks)
  - c. Differentiate between the strike Dip and Outcrops in the field how are they useful in civil (06 Marks) engineering applications?

Module-4

With neat sketches describe the confined and unconfined aquifers. (12 Marks) (08 Marks) Explain Hydrological cycle with neat sketches.

## OR

0	0	Describe the vertical distribution of ground water with neat sketches.	(08 Marks)
0	a.	Describe the vertical and the string Electrical registryity method	(08 Marks)
	h	Explain the ground water exploration by using Electrical resistivity method.	
	U.	c in a smallity in ground water exploration.	(04 Marks)
	C.	Explain the uses of porosity and permeability in ground water exploration.	(

## Module-5

		What is Earthquake? Explain the types, causes and effects.	· ·	(10 Marks)
9	a.	what is Earthquake: Explain the types, causes and	4	(05 Marks)
	h	Explain Tsunami causes and effects.		(
		What are Landslides and explain causes and effects.		(05 Marks)

## OR

Describe the following:
Topographic maps
Remote Sensing 10

- b.
- c.
- d. Impact of Mining and Quarrying

(20 Marks)