

## III B. Tech I Semester Supplementary Examinations, June/July-2022

## ENGINEERING GEOLOGY

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)  
 2. Answering the question in **Part-A** is compulsory  
 3. Answer any **THREE** Questions from **Part-B**

\*\*\*\*\*

**PART -A****(22 Marks)**

1. a) What is the importance of Physical Geology? [3M]
- b) What are the types of Minerals? [4M]
- c) What are the types of Unconformity? [4M]
- d) What are the Internal causes of Landslides? [4M]
- e) What are the principles of Exploration GeoPhysics? [4M]
- f) What is meant by Influent and Effluent waters? [3M]

**PART -B****(48 Marks)**

2. a) What are the branches of Geology? [8M]
- b) Explain the Physical, Chemical & Biological factors of Weathering process. [8M]
3. a) Write the physical property, chemical composition, and uses of FELDSPAR group of minerals. [8M]
- b) What are the structures and textures of Igneous rocks with sketches? [8M]
4. a) What are the parts of FOLDS? Give their mechanism. [8M]
- b) What are the types of FOLDS? Explain each with respective sketch. [8M]
5. a) Explain the classification of Rocks based on Porosity and Permeability. [8M]
- b) Describe the methods of Groundwater Exploration Techniques. [8M]
6. a) Explain the classification of GeoPhysical methods. [8M]
- b) Explain the principle and methods of Seismic and Radiometric method. [8M]
7. a) What are the influences of Rock types for successful construction of Reservoirs? [8M]
- b) What is the importance of Geological structures for Tunneling with sketches? [8M]

\*\*\*\*\*