

B. TECH.
(SEM IV) THEORY EXAMINATION 2018-19
ENGINEERING GEOLOGY

Time: 3 Hours**Total Marks: 100****Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A**

- 1. Attempt all questions in brief.** **2 x 10 = 20**
- What do you understand by building stones?
 - Define meanderings and ox-bow lake.
 - Write textures and mineralogical composition of Granite.
 - What is a hinge point of a fold?
 - Describe formation of folds.
 - What is meant by RMR?
 - Name the a few secondary tectonic plates.
 - What is land slide?
 - What are the common shape of tunnel?
 - What is over break in tunneling?

SECTION B

- 2. Attempt any three of the following:** **10x3=30**
- Give a detailed account on the physical properties of Feldspar group of minerals.
 - Write an essay on engineering properties distribution and uses of granite.
 - What is plate tectonics ? describe in detailed and explain its relation to earthquake.
 - Describe with neat sketches the various classification of faults.
 - Give an account of geological investigation of Reservoir.

SECTION C**(Each question of this section carry 10 Marks)**

- 3. Attempt any one part of the following:**
- Explain the true dip and apparent dip with neat diagram.
 - Define weathering. Discuss the process of weathering and its products.
- 4. Attempt any one part of the following:**
- Describe in detail the distinguishing features of igneous, sedimentary and metamorphic rocks
 - What is a joint? Explain the classification of joints. Add a note on unconformities.
- 5. Attempt any one part of the following:**
- Discuss the causes and effects of earthquakes. Describe different classification of earthquakes.
 - Write the various physical properties of the minerals with examples
- 6. Attempt any one part of the following:**
- Discuss the causes for landslides. Write the classification of landslides
 - Explain the preventive measures to control the landslides
- 7. Attempt any one part of the following:**
- Describe various geological factors that may cause trouble in the construction of a dam.
 - Give an account of causes of inherent weakness in rocks. How rock qualities could be improved by artificial treatment.