PVP 14

Code: CE3T4

II B.Tech - I Semester–Regular/Supplementary Examinations
November 2018

ENGINEERING GEOLOGY
(CIVIL ENGINEERING)

Duration: 3 hours Max. Marks: 70

PART – A

Answer ***all*** the questions. All questions carry equal marks

11x 2 = 22 M

1.

a) Explain the weathering process.
b) Discuss the various agents of metamorphism.
c) What is the difference between a normal and reverse fault?
d) Write the importance of Geothermal method.
e) Explain important physical properties of muscovite.
f) What are the physical properties of igneous rocks?
g) Outline the applications of magnetic method.
h) What is an aquifer?
i) Write any 4 preventive measures to be taken in earthquake point of view.
j) Write the importance of geology for constructions of Dams.
k) Briefly write about lining in tunnels.

PART – B

Answer any ***THREE*** questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) Discuss the geological work of river. Give the depositional landforms made by rivers. 8 M

   b) Outline the physical properties of minerals with suitable examples. 8 M

3. a) How do you distinguish mineral from a rock? What are the major differences between dykes and sills? 8 M

   b) Assess the petro graphic characters of i) Conglomerate ii) Limestone. 8 M

4. a) Write short note on i) cone of depression ii) geological controls of ground water movement. 8 M

   b) Enumerate the causes and classification of landslides. 8 M

5. a) Write about the principle, physical parameters of magnetic method. 8 M

   b) Describe the importance of Electrical Resistivity studies in civil engineering. 8 M

6. a) Define dam. How do you classify them? How do you select a site to construct a dam? 8 M

b) Explain about the role of Geological Considerations in Tunneling. 8 M