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B.TECH.

THEORY EXAMINATION (SEM–IV) 2016-17

ENGINEERING GEOLOGY

Time : 3 Hours ***Max. Marks : 100***

Note : *Be precise in your answer. In case of numerical problem assume data wherever not provided.*

SECTION – A

1. Explain the following: **10 x 2 = 20**

(a) Rock and Mineral
(b) Moh's scale of hardness of mineral
(c) Luster and streak of mineral
(d) Unconformity
(e) Focus & epicenter of earth quake
(f) Rock cycle
(g) Pozzolanic material
(h) Dips strike of Bed
(i) Aquifer and aquiclude
(j) Alkali Aggregate Reaction

SECTION – B

2. Attempt any five of the following questions: **5 x 10 = 50**

(a) What are faults? Give their terminology and their classification with suitable diagrams.
(b) What is mass movement? Explain the causes of landslide and preventive measures.
(c) Write a note on the importance of geology in civil engineering.
(d) What are sedimentary rocks? How are they classified? Give a brief description of each class with examples.
(e) How will you differentiate between Richter magnitude and Mercalli intensity scale of earth quake?
(f) Write a detailed note on the ground water province of India.
(g) What do you mean by building stones? Describe their engineering properties.
(h) Define Seismic Zones? Briefly describe the different Seismic Zones of India.

SECTION – C

Attempt any two of the following questions: **2 x 15 = 30**

3. Describe the Geology investigation for site selection of Dam and Reservoir.

4. Give a comparative account of Electrical and seismic methods of geological investigations.

5. What do you mean by minerals? Explain the physical and chemical properties of all rock forming minerals.

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