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**Question Paper Code: 31133**

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Third Semester

Civil Engineering

01UCE303 - ENGINEERING GEOLOGY

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions.

PART A - (10 x 2 = 20 Marks)

1. Define the term "Weathering of Rocks".
2. What are the movements of the oceans?
3. Write the composition and uses of Calcite.
4. What are clay minerals?
5. What are Plutonic rocks?
6. What do you understand by metamorphism?
7. What is meant by dip in rock?
8. What is an OUTCROP?
9. State the different types of remote sensing platforms.
10. Define remote sensing.

PART - B (5 x 16 = 80 Marks)

11. (a) Explain in detail about weathering of rocks and the products of weathering. (16)

Or

(b) Discuss in detail about the geological work and land forms formed by river. (16)

12. (a) Discuss the various physical properties of minerals with suitable examples. (16)

Or

(b) Elaborate on the composition, physical properties and mode of origin and uses of

(i) Quartz and its varieties (8)

(ii) Mica and its varieties (8)

13. (a) How will you differentiate the three groups of rocks in the field? (16)

Or

(b) Bring out any six salient characteristics between Igneous, sedimentary and Metamorphic rocks. (16)

14. (a) What is a fold? Describe the various classifications of fold with neat sketches. (16)

Or

(b) Discuss about the electrical resistivity method and its applications in civil engineering field. (16)

15. (a) Explain the geological considerations necessary for the construction of tunnel in hard and soft rock terrains. (16)

Or

(b) Discuss the factors which are influencing landslides and suggest remedial measures. (16)