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**Question Paper Code: 33013**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 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. List out the branches of geology.
2. What are the movements of the oceans?
3. List out the mineral formation process.
4. What are clay minerals?
5. What are Plutonic rocks?
6. Write the types of metamorphism.
7. What is meant by dip in rock?
8. Mention the parts of a fault.
9. What are the engineering properties to be studied for a dam site?
10. Define remote sensing.

PART - B (5 x 16 = 80 Marks)

11. (a) Discuss the landforms produced by erosion and deposition of rivers. (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) Describe the classification and physical properties of quartz family. (16)

13. (a) Describe the mode of formation, classification and structures of sedimentary rocks. (16)

Or

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

14. (a) Discuss the different types of folds. (16)

Or

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

15. (a) Discuss the geological conditions essential for tunnel construction. (16)

Or

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

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