F 6916 (Pages : 2) Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, NOVEMBER 2017

Third Semester

Branch : Civil Engineering

CE 010 306—ENGINEERING GEOLOGY (CE)

(New Scheme—2010 Admission onwards)

[Improvement/Supplementary]

Time : Three Hours Maximum : 100 Marks

Part A

Answer **all** *questions.*
Each question carries 3 marks.

1. Briefly describe the "Geologic Time Scale".
2. Describe Elastic Rebound Theory.
3. Write short notes on Moh's Scale of Bardness.
4. Explain the parts of a Fold.
5. Discuss about Artesian Wells.

(5 × 3 = 15 marks)

Part B

Answer **all** *questions.*
Each question carries 5 *marks.*

6. Explain Biological Weathering.
7. Write notes on Lithospheric Plates.
8. Explain the textures of Igneous Rocks.
9. Significance of joints in Civil Engineering.
10. Write a note on the classification and causes of Landslides

(5 × 5 = 25 marks)

Turn over

Part C

Answer **all** *questions.*

Each question carries 12 *marks.*

11. Write in detail, the Geological process of weathering, types, products and their Engineering importance.

Or

12. Briefly describe Geological work of oceans with erosional landforms. Add a note on its Engineering significance.

13. With neat sketches describe the interior constitution of Earth, their composition and features of Lithosphere and Asthenosphere.

Or

14. Describe the different types of Seismic Waves, causes, effects and distribution of Earthquake.

15. Discuss about the testure, mineralogy Engineering properties and use of following rocks.

    1. Granite.
    2. Dolerite.
    3. Marble.
    4. Charnockite.

Or

16. Explain in detail about the important physical properties of minerals.

17. Describe with the help of neat sketches, various types of folds and its Engineering significance.

Or

18. What are faults ? Comment on their classification and Engineering significance.

19. What are the Geological factors to be considered in Tunnel Construction ?

Or

20. Describe Vertical distribution of ground water and an account of factors controlling ground water movement.

(5 × 12 = 60 marks)