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Q 2020

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2007.

Second Semester

Civil Engineering

AG 151 — ENGINEERING GEOLOGY

Time : Three hours

Maximum : 100 marks

Answer A&L questions.

PART A — (10 × 2 = 20 marks)

1. What are convergent boundaries?
2. What is meant by 'Saltation'?
3. Describe 'Cleavage of a mineral'.
4. What is the hardness of Quartz?
5. How are sedimentary rocks formed?
6. How do you classify Igneous rocks?
7. What are 'Faults'?
8. Define strike and dip of a bed.
9. How do you prevent coastal erosion?
10. Give the applications of remote sensing.

PART B — (5 × 16 = 80 marks)

11. (a) Describe with neat diagram the Interior of Earth.

Or

- (b) Describe the Geological work of rivers.

12. (a) Describe various Quartz minerals with their physical properties and uses.

Or

- (b) Describe the properties of following minerals : (4 × 4 = 16)

- (i) Calcite
- (ii) Orthoclase
- (iii) Biotite
- (iv) Kaolinite.

13. (a) Describe the formation, classifications and important textures of Igneous rocks.

Or

- (b) Write properties of the following rocks : (4 × 4 = 16)

- (i) Granite
- (ii) Sand stone
- (iii) Gneiss
- (iv) Dolerite.

14. (a) Describe the different types of folds with neat diagrams. Add a note on their Engineering significance. (11 + 5)

Or

- (b) Explain the Electrical resistivity survey adopting Wenner configuration for ground water investigation.

15. (a) Discuss the causes of Landslides. Add a note on the prevention methods. (10 + 6)

Or

- (b) Explain the elements of visual interpretation of aerial photos with examples.