

CBCS SCHEME

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Third Semester B.E. Degree Examination, July/August 2022 Engineering Geology

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What is Engineering Geology? Explain the importance of Geology in the field of Civil Engineering. (08 Marks)
- b. With a neat sketch, explain the Structure and Composition of the Earth. (08 Marks)

OR

- 2 a. What is a Mineral? Discuss the following Physical properties of Minerals with examples :
i) Habit / Form ii) Lustre iii) Cleavage. (08 Marks)
- b. Write the Physical properties , Uses and Occurrences of any two of the following Minerals :
i) Orthoclase ii) Calcite iii) Hematite. (08 Marks)

Module-2

- 3 a. What are Igneous Rocks? Write the properties occurrences and uses of the following Rocks :
i) Granite ii) Dolorite. (09 Marks)
- b. What are Sedimentary Rocks? Explain with neat sketches Plane of Cross bedding structures. (03 Marks)
- c. What is Metamorphism? Explain Regional Metamorphism, with Rock examples. (04 Marks)

OR

- 4 a. What are Folds? Explain with neat sketches, the parts of Folds. Write a note on Recumbent Folds. (08 Marks)
- b. What are Faults? Explain with neat sketches, the parts of Faults. Write a note on Normal Faults. (06 Marks)
- c. Write a note on Mural Joints. (02 Marks)

Module-3

- 5 a. Write a brief note on Epigene and Hypogene with Geological Agents. (04 Marks)
- b. What is Weathering? Explain the different types of Weathering. (12 Marks)

OR

- 6 a. Write a note on Dendritic and Radial drainage Patterns. (04 Marks)
- b. Write a brief note on Coastal Land forms. (04 Marks)
- c. What are Earthquakes? Explain its causes and effects. (08 Marks)

Module-4

- 7 a. With a neat sketch, explain the Hydrological Cycle. (06 Marks)
- b. What are Aquifers? Write a brief note on Confined, Unconfined and Parched Water table. (10 Marks)

OR

- 8 a. Explain the Electrical Resistivity method for Exploration of Ground water. (08 Marks)
b. Describe the methods adopted for Artificial Recharge of Ground water. (08 Marks)

Module-5

- 9 a. What is Remote Sensing? Write its application in Civil Engineering. (08 Marks)
b. What is GPS? Name the components and applications of GPS. (08 Marks)

OR

- 10 a. What is GIS? Add a note on advantages and disadvantages of GIS. (08 Marks)
b. Discuss the impact of Mining on Environment. (08 Marks)

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