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Register No.:	 Name:	

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FOURTH SEMESTER B.TECH DEGREE EXAMINATION (S), AUGUST 2023 CIVIL ENGINEERING (2020 SCHEME)

Course Code: 20CET202

Course Name: Engineering Geology

Max. Marks: 100 Duration: 3 Hours

PART A

(Answer all questions. Each question carries 3 marks)

- 1. Describe any three depositional features made by the sea
- 2. What is laterite and how is it formed
- 3. Illustrate the origin of tectonic earthquakes with neat diagram
- 4. Define plate tectonics
- 5. Elucidate the electrical resistivity survey in groundwater exploration
- 6. Discuss the ground water flow equation using Darcy's law
- 7. Define a mineral. Give two examples of minerals and their chemical composition
- 8. Describe the different types of igneous rocks based on their origin
- 9. How is a topographic map helpful to a civil engineer
- 10. Write a note on the attitude of geologic structures

PART B

(Answer one full question from each module, each question carries 14 marks)

MODULE I

11. Explain how the geological process of rivers modify the morphology of earth. (14)

OR

- 12. a) Elaborate the relevance of geology in civil engineering. (8)
 - b) Discuss about any four coastal protection measures (6)

MODULE II

- 13. a) Explain the methods of rating of an earthquake. (7)
 - b) Discuss the various types of seismic waves and write a note on seismograph and seismogram (7)

OR

14. a) Give an account on different plate boundaries and the seismic (8)
