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Faculty of Engineering & Technology Eighth Semester B.E. (Civil)/Eighth Semester B.E.

P.T. (Civil) Examination

ADVANCED ENGINEERING GEOLOGY

Elective-II

Sections-A & B

Time—Three Hours]

[Maximum Marks—80

INSTRUCTIONS TO CANDIDATES

- (1) All questions carry marks as indicated.
- (2) Answer THREE questions from Section A and THREE questions from Section B.
- (3) Illustrate your answers wherever necessary with the help of neat sketches.

SECTION---A

- Explain Creep in the rock mass. Describe Kelvin Rheological Model.
 13
- 2. Describe the Griffith's theory of failure. 13
- Explain the principles of rock stress measurements and in-situ tests. Describe Load Bearing Test. 13
- 4. Describe Rock Quality Designation. How rock classification is done on the basis of RQD? 13

Write notes on	(any	THREE)
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- (a) Electrical Resistivity Method of Exploration
- (b) Young's modulus of Elasticity
- (c) Brazilian Test
- (d) Ground water modeling.

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SECTION-B

 Describe the principle of Remote sensing and explain how Remote Sensing Technique is used for accomplishing various objectives in Hydrological works.

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- What is Artificial Recharging of Ground Water? Explain various methods of Artificial Recharging of Ground Water.
- Define land cover/land use planning in detail. Explain various criteria for site selection for Municipal waste disposal.
- Explain the various types of slides. Describe the causes
 of land slides. Explain the preventive measures of
 slides in the hilly region.
- 10. Write notes on (any THREE):
 - (a) Pumping Test
 - (b) Rehabilitation Procedure
 - (c) Ground water trends and Fluctuation
 - (d) Safe Yield.

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(Contd.)

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