VKR/KS/13/3262/3601

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]

MNO-39175

[Maximum Marks: 80

INSTRUCTIONS TO CANDIDATES

- (1) Answer THREE questions from Section A and THREE questions from Section B.
- (2) Assume suitable data wherever necessary.
- (3) Illustrate your answers wherever necessary with the help of neat sketches.

SECTION-A

- Explain creep in rock mass under combined loading condition.
- What are the principal methods of Geophysical exploration? Explain the Rock Quality Designation (RQD) method for classification of rocks. 13
- (a) Describe Modulus of Elasticity and Poisson's 3. 6 Ratio.
 - Discuss Mohr's theory of Failure.

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4.	Describe in detail necessity and requirement of	'In-
	Situ' tests. Explain plate load test.	13

- Write notes on any THREE :-
 - (a) Pressure Tunnel Test
 - Dynamic properties of rock
 - Rheological Model
 - (d) Ground water modeling.

SECTION-B

- Describe the pumping test conducted for unconfined aquifer in the field. 13
- What is Artificial recharging of Ground water? Explain various methods of artificial recharging. 13
- Describe various criteria for site location for solid and Biomedical waste from Municipal Corporation. 13
- 9. Describe the various natural Geological Hazards. Describe prevention and prediction system of landslides. 13
- 10. Write notes on any THREE :-
 - (a) Rehabilitation system
 - Application of Remote Sensing in Ground water exploration.
 - Intensity and seismic zone of India
 - (d) Land use and land cover planning.

(Contd.)

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