

Total No. of Questions : 4]

SEAT No. :

P 846

[Total No. of Pages : 2

[5315]- 446

T.Y. B.Sc. (Semester - IV)

GEOLOGY (Paper - VI)

GL- 346 : Applied Geology - II

(Engineering Geology, Geohydrology and Prospecting)

(2013 Pattern)

Time : 2 Hours]

[Max. Marks :40

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *All questions carry equal marks.*
- 3) *Figures to the right indicate full marks.*
- 4) *Neat diagrams must be drawn wherever necessary.*

Q1) Answer in 2/3 lines

[10]

- a) What is Peached Aquifer?
- b) What are Geophones?
- c) What is meant by Rainwater Harvesting?
- d) Define Tunnel.
- e) Define Railroad Ballast.
- f) Define Arch Dam.
- g) Give uses of rock aggregate.
- h) What is Connate and Juvenile water?
- i) Name two types of dams.
- j) What is Torsion Balance?

P.T.O

Q2) Answer in short (any two) [10]

- a) Explain Tunnelling in Deccan traps
- b) Describe Mineralogic Guides
- c) Describe recharge through Pits and Shafts.

Q3) Write short notes (any two) [10]

- a) Opencast mining
- b) Porosity and Secondary porosity
- c) Any two engineering properties of rocks.

Q4) Define the terms Hydrology, Geohydrology and hydrageology. Explain the vertical distribution of Groundwater. [10]

OR

Explain in detail Lithological and Structural criteria for prospecting.

