

2009-2010
M.Sc. (SEMESTER II) EXAMINATION
APPLIED GEOLOGY
HYDROGEOLOGY – II
(GLM-8006)

Maximum Marks: 35

Duration: Two Hours

Note: Answer all questions.

- 1 Write detail notes on any two of the following:- (09)
- (a) Hydrogeologic boundaries
 - (b) Assumptions of non equilibrium equation ✓
 - (c) Walton method for solution of pumping test data. ✓

- 2 Describe Ghyben – Herzberg relation between fresh and saline waters. Also list methods used to control saline water intrusion. (09) 15

OR

- 2' Write notes on any two of the following:-
- (a) Finite difference grid ✓
 - (b) Application of groundwater models ✓
 - (c) Well development methods

- 3 Write detailed notes on any two of the following:- (08) 5
- (a) Isotope hydrology ✓
 - (b) Chemistry of natural water ✓
 - (c) Methods of treatment of groundwater.

- 4 Write explanatory notes on the following: (09)
- (a) Problem of Arsenic
 - (b) Drinking water quality criteria

OR

- 4' How will you evaluate the pollution potential of groundwater and how will you monitor it?

