

M.Sc. DEGREE EXAMINATION, MARCH 2016

GEOLOGY

FOURTH SEMESTER

Paper II – HYDROGEOLOGY AND WATERSHED MANAGEMENT

45042

Time: Three Hours

Maximum: 75 marks

(No additional sheet will be supplied)

**Part – A (5x3=15 marks)**

Answer any FIVE questions

Each question carries 3 marks

Each answer should be not exceed one page

1. Hydrological cycle
2. Storage coefficient
3. Horizontal wells
4. Porosity
5. Electrical resistivity method
6. Piper diagram
7. Drainage basin
8. Check dams

**Part –B (4x15=60 marks)**

Answer ALL questions

Each question carries 15 marks

Each answer should be not exceed 6 pages

9. Write an essay on hydrological properties of rocks.  
(Or)
10. Describe in detail about aquifers classification with neat sketches.
11. Give Darcy' s law and its applications  
(Or)
12. Give the procedure of estimation of Ground water budget
13. Briefly describe ground water quality for the different uses  
(Or)
14. Write an essay on causes for salt water intrusion in coastal areas
15. How remote sensing is useful in delineation of ground water potential zones in un consolidate sediments  
(Or)
16. Write an essay on conjunctive utilization of water resources

