

15P248

(Pages: 2)

Name.....

Reg. No.....

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JULY 2016**

(CUCSS - PG)

(Applied Geology)

**CC15P GEL2 C07 - HYDROGEOLOGY**

(2015 Admission)

Time: Three Hours

Maximum: 36 Weightage

**I Short answer type questions. Answer *all* questions**

- 1) Meteoric Water.
- 2) Stiff Diagram.
- 3) Arsenic and Fluoride Contamination.
- 4) Hydrograph.
- 5) Ghyben-Herzberg relationship.
- 6) Lineament mapping.
- 7) Springs.
- 8) Physical properties of water.
- 9) Problems of over exploitation.
- 10) Water table draw down.
- 11) Radio Isotopes.
- 12) Caliper logging.
- 13) Specific Capacity.
- 14) Types of Aquifers.

**(14x1=14 weightage)**

**II Short essay type questions. Answer any *seven* questions.**

- 15) Water table contour map.
- 16) VES and Different methods.
- 17) Artificial water recharge methods.
- 19) Application of remote sensing in groundwater exploration.
- 20) Determination of permeability in the laboratory.
- 21) Methods for prevention of Salt water intrusion.

- 22) Vertical distribution of Ground water.  
23) Darcy's Law and its applications.  
24) Ground water problems related to Foundation and Mining.

(7 x 2 = 14 weightage)

**III Long essay type questions. Answer any *two* questions.**

- 25) Describe the procedures of a pump test and the evaluation of aquifer parameters using this method.

OR

- 26) Different stages in construction of a well.  
27) Describe the various hydrological properties of rocks with suitable figures and Examples.

OR

- 28) Ground water exploration methods.

(2 x 4 = 8 weightage)

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