Reg. No. | | | | | | | | | |

GIH 501

Third Semester M.Sc. Degree Examination, December 2018/January 2019
(CBCS)
GEOINFORMATICS
Water Resources

Time : 3 Hours Max. Marks : 70

I. Define **any five** of the following : **(2×5=10)**

1) Porosity and permeability.

2) Infiltration.

3) Storage coefficient.

4) Connate water.

5) Vadose water.

6) Lineaments.

7) Aquifuge.

II. Write short notes on **any five** of the following : **(4×5=20)**

8) Concept of surface water.

9) Confined and unconfined aquifer.

10) Problems of over exploitation of ground water.

11) Application of DEM in flood mapping.

12) Geomorphic controls of water resources.

13) Slope analysis.

14) Darcy's law and its applications in ground water movement.

P.T.O.

III. Answer **any four** of the following : **(5×4=20)**

15) Write a note on ground water contamination.

16) Discuss the different methods in water resource estimation.

17) Explain the problems of sea water intrusion in coastal aquifer.

18) Write a note on concept of natural recharge.

19) Give an account of physical and chemical properties water.

IV. Essay type questions :

20) Describe the hydrological cycle and its segments. **10**

OR

Explain the artificial recharge techniques in river basin management.

21) Explain in detail geological and geophysical methods of groundwater exploration. **10**

OR

Explain the application of remote sensing and GIS in the study of water resources.

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