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- (D) Comment in detail on Hydrogeological mapping using various techniques. **12**

Or

Describe about various types of wells with the help of diagrams.



Roll No.

Total No. of Sections : 4

Total No. of Printed Pages : 4

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III Semester Examination

M.Sc.

GEOLOGY

Paper IV

[Hydrogeology]

Time : Three Hours]

[Maximum Marks : 80

[Min. Passing Marks : 16

Note : Part A and B of each question in each unit consists of Very Short Answer Type Questions which are to be answered in one or two sentences. Part C (Short Answer Type) of each question will be answered 200-250 words. Part D (Long Answer Type) of each question should be answered within the word limit 400-450.

Unit-I

1. (A) Define evapotranspiration. **2**
- (B) What is permeability ? **2**
- (C) Describe in brief about Raynold's number. **4**

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Or

Differentiate between specific yield and specific retention.

- (D) Comment in detail on Darcy's law and its validity. **12**

Or

Throw light on ground water reservoirs and their classification.

Unit-II

2. (A) What is water table contour ? **2**
(B) Define wetlands. **2**
(C) Comment in brief on Hydrographs. **4**

Or

Explain USGS salinity graph.

- (D) Throw light in detail on water contaminants and pollutants. **12**

Or

Comment in detail on "Ground Water Quality."

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Unit-III

3. (A) What is confined aquifer ? **2**
(B) Comment on problem of over exploitation of ground water. **2**
(C) Explain conjunctive use of ground water. **4**

Or

Differentiate between steady and unsteady flow.

- (D) Throw light in detail on water level fluctuations and its causative factors. **12**

Or

Explain in detail on Artificial Recharge of ground water.

Unit-IV

4. (A) Define Water Management. **2**
(B) What is radio isotope ? **2**
(C) Comment on maintenance of wells. **4**

Or

Explain about rotary drilling method.