

**19P253**

(Pages: 1)

Name.....

Reg. No.....

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2020**

(CUCSS - PG)

**CC19P GEL2 C07 - HYDROGEOLOGY**

(Applied Geology)

(2019 Admission - Regular)

Time: Three Hours

Maximum: 30 Weightage

**PART A (Short Answer Type)**

Answer any *four* questions. Each question carries 2 weightage.

1. Juvenile water.
2. Transmissivity.
3. Thiem's method.
4. Flouride in ground water.
5. Lineament mapping.
6. Tube wells.
7. Percolation tanks.

**(4 × 2 = 8 Weightage)**

**PART B (Short Essay Type)**

Answer any *four* questions. Each question carries 3 weightage.

8. Vertical distribution of ground water
9. Procedure of pumping test
10. Piper trilinear diagram
11. Ghyben-Herzberg relation
12. Schlumberger configuration
13. Ground water provinces of India
14. Ground water tracers

**(4 × 3 = 12 Weightage)**

**PART C (Long Essay Type)**

Answer any *two* questions. Each question carries 5 weightage.

15. Describe various hydrological properties of rocks. Add a note on laboratory determination of permeability.
16. Describe unsteady radial flow in confined and unconfined aquifers.
17. Explain remote sensing methods for ground water exploration.
18. Explain various methods of well development and maintenance.

**(2 × 5 = 10 Weightage)**

\*\*\*\*\*