

**U.G. 2nd Semester Examination - 2022****ENVIRONMENTAL SCIENCE****[HONOURS]****Course Code : ENVS-H-CC-L-03****(Water and Water Resources)**

Full Marks : 40

Time : 2½ Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*1. Answer any **five** of the following: 2×5=10

- a) What is the importance of sodium adsorption ratio in irrigation water?
- b) Define dendritic drainage pattern, with an example.
- c) What is the difference between infiltration and percolation?
- d) Mention the permissible limit of TDS in drinking water.
- e) Define artesian aquifer.
- f) What is watershed atlas?

g) Differentiate between swamp and marsh wetlands.

h) What were the main terms of Indus Water Treaty?

2. Write short notes on any **two** of the following:

5×2=10

- a) Ocean acidification.
- b) Hotspots of surface water.
- c) Ganges water treaty.

3. Answer any **two** of the following: 10×2=20

- a) What is watershed? State its importance. Discuss the Integrated Watershed Development Programme of India. 2+3+5
- b) Define wetland. What are the criteria for identifying Ramsar wetlands? What are the major threats to wetlands in India? 2+4+4
- c) What is National River linking plan? What are the benefits of river linking project? What is the reason behind Krishna Water Dispute?

2+4+4

*[Turn over]*