

U.G. 5th Semester Examination - 2020**ENVIRONMENTAL SCIENCE****Course Code : BENVDSHT2 [DSE 2]****Course Title: Water and Water resources**

Full Marks : 40

Time : 2 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 **ten** of the following: $1 \times 10 = 10$
- What is P^{OH} ?
 - Why wetlands are called as 'biological supermarket'?
 - What is capillary water?
 - Define-plankton.
 - Define-infiltration.
 - What is Rain water harvesting?
 - Define biodegradable waste.
 - Define acidity of water.
 - What is artesian well?

- Name two macro-invertebrates.
- Define aquiclude.
- Define resource.
- What is MAL in respect of water quality?
- Name two phyto-planktons which are helpful to reclaim water quality.
- What do you mean by 'Water allocation'?

2. Answer any **five** of the following: $2 \times 5 = 10$
- What are the importance of water temperature in lotic ecosystem?
 - What are the factors that affect pH level of water?
 - How does TDS get into water?
 - What is salinisation?
 - What is Catchment area?
 - What are the effect of dam on hydraulic system?
 - What is embankment dam?
 - What happens if the pH of water is too low or to high?

3. Answer any **two** of the following questions:

$$5 \times 2 = 10$$

- a) Why pH and DO are important to water quality?
- b) Distinguish between surface water and ground water.
- c) Briefly describe about different contents of dam and reservoir.

4. Answer any **one** of the following: $10 \times 1 = 10$

- a) How does water fill an aquifer? How does water circulate? $5 + 5 = 10$
 - b) Briefly describe about the method of rain water harvesting. What are the advantages of rain water harvesting? $7 + 3 = 10$
 - c) What are the indirect effects of reservoir? What are the positive and negative impacts of dam on environment? $3 + 7 = 10$
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