

U.G. 1st Semester Examination - 2020**ENVIRONMENTAL SCIENCE****Course Code : BENVCCHT 102****Course Title: Environmental Biology**

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 Edge effect?
 - Define Biome.
 - What is Q10?
 - Define Ecology.
 - What is biological clock?
 - Define ecological niche.
 - What do you mean by the term, 'Species'?
 - What are the four food chains?
 - Define Ecotone.

- Is aloe vera a Xerophyte?
- Define arid zone.
- What is edaphic factor?
- Name two grasslands.
- Define circadian rhythm.
- What do you mean by 'systematic position'?

2. Answer any **five** of the following: $2 \times 5 = 10$
- What are grazing food chain and detritus food chain?
 - What are ecotype and ecophene?
 - Define adaptation.
 - What is Shelford's Law?
 - Distinguish between standing state and standing crop.
 - Define habitat.
 - Mention two morphological features (adaptation) of hydrophytes.
 - What do you mean by biomial nomenclature?
3. Answer any **two** of the following: $5 \times 2 = 10$
- Classify Biome.
 - Short note: ecological succession

c) Mention the role of decomposers in any ecosystem.

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

a) Write in brief about structural and functional aspects of mangrove ecosystem.

b) Define taxonomy. Write down the benefits and limitations of taxonomical studies of flora and fauna. $2+8$

c) Write short notes on: $5 \times 2 = 10$

i) Ecological pyramid and

ii) Nitrogen cycle
