

B.Sc. Semester-V Examination, 2022-23**ENVIRONMENTAL SCIENCE [Honours]**

Course ID : 51811 Course Code : SH/ENV/501/C-11

Course Title : Biodiversity and Conservation

Time : 1 Hour 15 Minutes Full Marks : 25

*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 questions:

1×5=5

- What do you mean by latitudinal trends in diversity?
- What is the significance of Gene bank?
- What is gamma diversity?
- Define agroforestry.
- What do you mean by Biosphere reserves?
- Define anthropogenic activity?
- Mention two consequences of biodiversity loss.
- Differentiate deforestation from afforestation.

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

5×2=10

- Write a brief note on joint forest management.
What is pollen culture bank? 4+1
- India is a mega diversity nation—justify the sentence. 5
- Discuss the natural disturbances to biodiversity. What do you mean by overgrazing? 4+1
- Mention the role of local communities in conservation. What is meant by temporal patterns? 4+1

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

10×1=10

- Discuss different sampling strategies of biodiversity estimation. Add a note on ethical values of biodiversity. 6+4
- Write about the phytogeographic and zoogeographic zones of the country. Discuss in short about climate and pest control. (3+3)+4
