

B.Sc. (NEP) Sem.-5 Examination

DSC-C-351

Env. Science

November-2025

Time : 2-00 Hours]

[Max. Marks : 50

- Instructions:** (1) Draw figures where necessary.
 (2) Show question number against each answer.
 (3) Figures in right are marks.

Q1. Write a detail note on food chain, food web and ecological pyramids. (10)

OR

Q1(A) Differentiate between Autecology and Synecology. (05)

Q1(B) Explain the concept of Gaia hypothesis. (05)

Q2. Write a brief note on Tundra, Temperate and Tropical forests. (10)

OR

Q2(A) Note down the special issues of India in detail. (05)

Q2(B) Write a note on flora and fauna of India. (05)

Q3. Explain the concept of species interaction in detail. (10)

OR

Q3(A) A brief note on types of succession. (05)

Q3(B) What do you mean by ecological succession? Note down its steps. (05)

Q4. Explain, how does an organism adapt under various environmental conditions. (10)

OR

Q4(A) Write a note on hydrophytes. (05)

Q4(B) Explain the role of xerophytes in nature. (05)

Q5. Write any **Ten** out of twelve. (10)

- 1) Who gave the concept of Ecology?
- 2) Define mesophytes.
- 3) Write down the role of community.
- 4) Name of biodiversity hotspots present in India.
- 5) What does mutualism mean?
- 6) Note down the examples of epiphytes.
- 7) Name the different models of succession.
- 8) What does tolerance range mean?
- 9) Define Ecesis.
- 10) Name the climatic zones of India.
- 11) Differentiate Intraspecific and Interspecific.
- 12) Why is adaptation important?

