

2025

**BOTANY — HONOURS**

**Paper : DSE-B-4**

**(Natural Resource Management)**

**Full Marks : 50**

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

1. Answer **any five** questions : 2×5
- (a) What is Bioprospecting?
  - (b) Distinguish between Horticulture and Silviculture.
  - (c) Mention any two minor forest products and its utilization.
  - (d) Define wetlands. Give an example from West Bengal.
  - (e) Define renewable and non-renewable resource. Give one example of each.
  - (f) What are the '4-Rs' in waste management?
  - (g) Define Ecological footprint.
  - (h) What is Ecomark?
2. Answer **any two** questions :
- (a) What is Carbon footprint? Distinguish between primary and secondary carbon footprint. How carbon footprint can be mitigated? 1+2+2
  - (b) Write a short note on management strategies of a watershed area. 5
  - (c) Write a brief note on reasons behind soil degradation and its management. 5
  - (d) Write a brief note on international efforts on conservation of marine ecosystem. 5
3. Answer **any three** questions :
- (a) Define Biodiversity. Describe the different levels of Biodiversity. Discuss briefly the 'National Biodiversity Action Plan' of India. 2+3+5
  - (b) Why wetlands are called as 'Natures Kidney'? Enumerate the threats to wetlands. Mention management strategies of wetlands. 3+4+3

**Please Turn Over**

**(2255)**

- (c) What is EIA? Give a brief outline of EIA method with suitable flowchart. What is participatory resource appraisal? 2+5+3
- (d) Enumerate the reasons behind the depletion of forest cover in India. Briefly state the management practices in forest conservation. 5+5
- (e) Define Sustainable development. What are the main pillars of Sustainable development? Compare viable, equitable and sustainable development. 2+3+5
-