

**M. Sc. (Environment Science and Technology) Sem - I (CBCS) (2013 Course) / M. Sc. (Geoinformatics) SEM-I (CBCS) (2013 Course) / DIPLOMA IN WILDLIFE CONSERVATION ACTION SEM – I (CBCS)/ M. Sc. (Wildlife Conservation Action) Sem – I (CBCS) 2015**  
**Course : WINTER - 2018**  
**SUBJECT : ECOSYSTEM STUDIES**

Day : Saturday  
Date : 17/11/2018

**W-2018-1225**

Time : 10.00 AM TO 01.00 PM  
Max. Marks : 60.

**N.B.:**

- 1) Attempt any **FIVE** questions.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw neat labeled diagrams **WHEREVER** necessary.

- Q.1 a)** Explain: (06)  
(i) Structure of forest ecosystem  
(ii) Types of forests in India.
- b)** Explain Biogeographic zones of India with an example of flora and fauna in each. (06)
- Q.2 a)** Explain the role of plate tectonics in evolution of biodiversity. (06)
- b)** Explain ecosystem evaluation with respect to – (06)  
(i) Indicators in valuation.  
(ii) Limitations.
- Q.3 a)** What is ecosystem dynamics? Give an account of patterns and elements of ecosystem dynamics with examples. (06)
- b)** Explain adaptations of plants and animals in desert ecosystem. (06)
- Q.4 a)** Explain the difference between cryptogams and phanerogams with examples in each. (06)
- b)** Explain Leibig's law of minimum and its role in conservation of species. (06)
- Q.5 a)** Explain mangroves ecosystem with respect to food chains and food webs. (06)
- b)** Explain lake ecosystem with respect to – (06)  
(i) Productivity (ii) Limiting factors
- Q.6** Answer any **THREE** of the following: (12)
- a) Coral reef.
  - b) ICBN nomenclature.
  - c) Functions of wetland ecosystem.
  - d) Taxonomic keys.

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