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BSCZOC 355

**Credit Based Sixth Semester B.Sc. Degree Examination, September 2022
(Semester Scheme) (2020 – 21 and Earlier Batches)
ZOOLOGY – VIII
Environmental Biology and Wildlife Biology**

Time : 3 Hours

Max. Marks : 80

- Instructions :** a) Answer **any ten** questions from Part – A and **one full** question from **each** unit of Part – B.
b) Draw diagrams **wherever** necessary.

PART – A

I. Answer **any ten** of the following :

(10×2=20)

- What is diapause ? Give an example.
- What is commensalism ? Give example.
- Write a short note on Fire as abiotic factor.
- What is edge effect ? Give an example.
- Define Food Chain. Give an example.
- Write a note on Climax Community.
- What is nitrogen fixation ?
- Define pollutants. Name any three major air pollutants.
- What is sedimentary cycle ? Give an example.
- What is Wallace's line ?
- What is a climatic barrier ? Give an example.
- What is red data book ?

PART – B

Unit – 1

- II. a) Define Ecology. Explain the terms autoecology and synecology with examples. **4**
- b) Comment on estuarine ecology. **4**
- c) Explain the soil profile with neat labelled diagram. **7**

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- III. a) Write a note on types of soil based on texture. **3**
b) Write a note on i) Predation ii) Parasitism. **5**
c) Explain zonation of sea with an illustration. **7**

Unit – 2

- IV. a) Explain food web with examples. **4**
b) Write a note on ecological niches. **4**
c) Explain the interactions between the components of pond ecosystem. **7**
- V. a) What is Shannon index ? Explain. **3**
b) Give an account on types of ecosystem. **5**
c) With reference to population ecology, explain age distribution and growth curves. **7**

Unit – 3

- VI. a) Write note on corridors and mosaics. **4**
b) Explain Greenhouse effect. **4**
c) Explain Carbon cycle with schematic representation. **7**
- VII. a) Write a note on El nino and La nino. **3**
b) Write a short notes on i) Eutrophication ii) BOD. **5**
c) What are causes and effect of Air pollution ? **7**

Unit – 4

- VIII. a) Give an account of Wildlife of Western Ghats. **4**
b) Give a detailed account of threats to Wildlife. **4**
c) Write an explanatory note on : **7**
i) Ramsar Convention ii) Project Tiger.
- IX. a) Explain briefly the need for Wildlife conservation. **3**
b) Briefly explain Palaeartic realm. **5**
c) Give an account on barriers of animal dispersal with suitable examples. **7**
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