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BSCZOC 382

**Choice Based Credit System Sixth Semester B.Sc. Degree
Examination, September 2022
(Semester Scheme) (2021 – 22 Batch Onwards)
ZOOLOGY – VIII
Environmental Biology and Wildlife Biology**

Time : 3 Hours

Max. Marks : 80

Instruction : Draw diagrams wherever necessary.

PART – A

I. Answer **any ten** questions.

(10×2=20)

- a) What is autecology and synecology ?
- b) Define cyclomorphosis.
- c) What is mutualism ? Give two examples.
- d) What is biotic potential ?
- e) What are community structure ?
- f) What are ecological pyramids ? Name any two types.
- g) What are bioindicators ? Give examples.
- h) What is Kyoto protocol ?
 - i) What is toxicology ? Enumerate any two subdivisions of toxicology.
 - j) Write the advantages of nuclear power plant.
- k) What is discontinuous distribution of animals ? Give two examples.
- l) Expand CITES and CBD.

P.T.O.



PART – B

Unit – I

- II. Answer **any two** questions. (4×2=8)
- a) Write a note on ecological niches.
 - b) Explain the effect of light on animals.
 - c) Draw a neat labelled diagram showing zonation of the sea.

- III. Answer **any one** question. (7×1=7)
- a) Write an explanatory notes on :
 - i) Competition
 - ii) Ammensalism.
 - b) What is biome ? Explain any two biomes.

Unit – II

- IV. Answer **any two** questions. (4×2=8)
- a) Write an explanatory note on Allee's principle.
 - b) Explain the term ecotone and edge effect with example.
 - c) Write notes on alpha, beta and gamma diversity.

- V. Answer **any one** question. (7×1=7)
- a) Write explanatory note on :
 - i) Man engineered ecosystem
 - ii) Food web.
 - b) Explain nitrogen cycle with an illustration.

Unit – III

- VI. Answer **any two** questions. (4×2=8)
- a) Write a note on electrostatic precipitators and cyclone separators.
 - b) Explain the effects of global warming.
 - c) Explain any four factors influencing toxicity.



VII. Answer **any one** question.

(7×1=7)

- a) Explain the following :
 - i) Photochemical smog
 - ii) Eutrophication.
- b) What is biomagnification ? Explain with suitable examples.

Unit – IV

VIII. Answer **any two** questions.

(4×2=8)

- a) Describe renewable and non-renewable energy resources giving examples.
- b) With reference to threats to wildlife, explain habitat destruction and overharvesting.
- c) Write a short note on Ramsar Convention.

IX. Answer **any one** question.

(7×1=7)

- a) What is Zoogeographical realm ? Explain the ethiopian realm with reference to climatic conditions and characteristic fauna.
 - b) Explain the following :
 - i) Red Data Book
 - ii) Project Tiger.
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