

(7 pages)

Reg. No. :

Code No. : 7153

Sub. Code : PZOM 22

M.Sc. (CBCS) DEGREE EXAMINATION,
APRIL 2018.

Second Semester

Zoology

ENVIRONMENTAL BIOLOGY AND BIODIVERSITY

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL the questions.

Choose the correct answer :

1. Decomposers help in _____
- (a) Breaking dead waste
 - (b) Recycle nutrients
 - (c) Both (a) and (b)
 - (d) Spreading decay

2. Biogeochemical cycles are also known as _____

- (a) Material cycle
- (b) Gaseous cycle
- (c) Sedimentary cycle
- (d) None of the above

3. Pollutants are classified into _____

- (a) Biodegradable
- (b) Qualitative
- (c) Non degradable
- (d) All of these

4. Bio magnification is caused mainly by _____

- (a) Organochlorines
- (b) Neem oil
- (c) Organo phosphates
- (d) All of these

5. Fossil fuel are rich in carbon and _____.

- (a) Nitrogen
- (b) Hydrogen
- (c) Both (a) and (b)
- (d) Oxygen

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6. An example of renewable resources could be _____
- (a) Gas
 - (b) Water
 - (c) Coal
 - (d) Petroleum
7. Biodiversity of a geographical region represents _____
- (a) Genetic diversity present in the dominant species of the region
 - (b) Species endemic to the region
 - (c) Endangered species found in the region
 - (d) The diversity in the organisms living in the region
8. The red data book keeps a record of all the _____
- (a) Endemic species
 - (b) Extinct species
 - (c) Endangered plants
 - (d) Endangered animals

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9. Which one of the following areas in India is a hotspot of biodiversity?
- (a) Sunderbans
 - (b) Western ghats
 - (c) Eastern ghats
 - (d) Gangetic plain
10. The Gir national park and wild life sanctuary is located at _____
- (a) Madhya Pradesh
 - (b) Gujarat
 - (c) Rajasthan
 - (d) Uttar Pradesh

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Write a note on concept and types of ecosystem.
- Or
- (b) Comment on water cycle with suitable illustrations.

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12. (a) List out the Soil issues you have studied.

Or

- (b) Give an account on bioremediation.

13. (a) Enumerate non renewable resources.

Or

- (b) List out the distribution of Indian water resources.

14. (a) Comment on similarity and dominance index.

Or

- (b) Describe endangered wild life species.

15. (a) Give an account on geography and major biomass.

Or

- (b) List out the values of wild life.

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PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Write a note on primary production and explain the methods to measure the primary production.

Or

- (b) Write an essay on aquatic ecosystem and explain.

17. (a) Explain the sources, effects and control measures of air pollution.

Or

- (b) Write briefly on nuclear hazards.

18. (a) Give an account on uses and exploration of mineral resources.

Or

- (b) Describe the ecological and economic importance of forest resources.

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19. (a) Discuss the values and uses of biodiversity.

Or

- (b) What are endangered species? Explain endemic and endangered species?

20. (a) Enumerate insitu and exsitu conservation of wild life.

Or

- (b) Describe the biogeographic zones in india and also zoogeographical realms.
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