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**Reg. No. :** .....

**Code No. : 6906**

**Sub. Code : PZOM 22**

M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2021.

Second Semester

Zoology — Core

**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 questions.

Choose the correct answer.

1. Find out the odd one : Endemic means restricted to \_\_\_\_\_.  
(a) World                      (b) Continent  
(c) Country                    (d) Region of a Country
2. Biodiversity may be of \_\_\_\_\_ kinds.  
(a) 2                              (b) 3  
(c) 4                              (d) 5

3. The term “Environment” literally means  
(a) The Climate                      (b) The Surrounding  
(c) The System                      (d) The Structure
4. India is losing \_\_\_\_\_ million tones of soil annually due to soil erosion.  
(a) 5334                                  (b) 6334  
(c) 6384                                  (d) 7334
5. The science of water application inside the farm is called  
(a) On farm irrigation    (b) Surface irrigation  
(c) Drip irrigation              (d) Well irrigation
6. Ecosystem managed by man are called  
(a) Natural ecosystem  
(b) Disturbed ecosystem  
(c) Artificial ecosystem  
(d) Undisturbed ecosystem
7. The last community in a succession is called  
(a) Ecosystem                      (b) Climax  
(c) Ecotone                          (d) Seral community

8. \_\_\_\_\_ is the illegal killing of animals.  
(a) Poaching (b) Begonia  
(c) Habenaria (d) Mahseer
9. Animals and plants are best protected in  
(a) National parks  
(b) Botanical gardens  
(c) Sanctuaries  
(d) Zoos
10. Forecasting of \_\_\_\_\_ is possible if forecast of weather is done properly.  
(a) Food  
(b) Earthquake  
(c) Cyclone  
(d) Eruption of Volcanoes

PART B — ( $5 \times 5 = 25$  marks)

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

Each answer should not exceed 250 words.

11. (a) Write short notes on Non-conventional Energy Resource.

Or

- (b) Effects of Pollutants on Vegetation.

12. (a) What are the impacts of ionizing radiation on biological tissue?

Or

- (b) Give an account on various conservation strategies.

13. (a) Discuss the physiological and biological aspects of toxicology.

Or

- (b) Write the benefits of alternate energy needs.

14. (a) Why are we more concerned about use through plastic?

Or

- (b) Give the salient features of Environmental Protection Act.

15. (a) Explain Richness Index and Association Index.

Or

- (b) Describe endangered and endemic species.

PART C — ( $5 \times 8 = 40$  marks)

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

Each answer should not exceed 600 words.

16. (a) How dams affect Forests and Tribal people?

Or

- (b) Write in detail non-renewable energy resource.

17. (a) Describe soil erosion and conservation methods.

Or

- (b) Discuss the need and approaches for the conservation of Biodiversity.

18. (a) State the biological importance of Ethic Committee.

Or

- (b) Explain Nuclear hazards of public health.

19. (a) Describe the measurement of primary productivity.

Or

- (b) Explain different types of food trophic level of marine Ecosystem.

20. (a) Give short notes on Dominance index.

Or

- (b) What are the link between biodiversity and genetics?
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