

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BFMS-414

M.Sc. (Final) Examination, 2023

ZOOLOGY

Paper - VII (b)

(Environmental Biology)

Time : 3 Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 5 × 5 = 25)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

1. (i) Define Endemic Species.

(ii) Give *two* examples of each for Poikelotherms and Homeotherms.

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- (iii) Define Lithosphere.
- (iv) Define Nutrient Immobilization.
- (v) Name the country where Pampas grass is found.
- (vi) Give formula of Net Productivity.
- (vii) What is the percentage of permanent grass land cover in India ?
- (viii) What is Standing State of Soil ?
- (ix) Name Pioneer and Climax Species of Waterbody.
- (x) Name any aquatic man-made Ecosystem.

Section-B

2. Write a brief note on conservation of matter in Lithosphere.

Or

What is the impact of pH fluctuation in animals at cellular level ?

3. Differentiate Hibernation from Aestivation.

Or

Write a short note on Acclimation.

4. Write a short note on stratification of forest ecosystem.

Or

Write a short note on adaptation of animals in Grassland Ecosystem.

5. Write the ecological characteristics of Tundra Biome.

Or

Write a short note on Lakes Stratification.

6. What are different kinds of Succession ?

Or

Give a brief account on ecological impact of Industrialization.

Section–C

7. Write about the Climate of India.
8. Describe ecophysiological adaptation with special reference to marine environment.
9. Explain types and ecological attributes of Desert Biota.
10. Describe ecological peculiarities, adaptations including impact on fauna.
11. Explain characteristics and species composition of India as a major biogeographic area.