

Roll No :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

SP-668

M.Sc. (Final) Examination, 2021

ZOOLOGY

Paper - VII (b)

(Environmental Biology)

Time : 1½ Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

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

(खण्ड-अ)

(अंक : 2 × 10 = 20)

नोट :- सभी दस प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 50 शब्द)। प्रत्येक प्रश्न 2 अंक का है।

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.

(खण्ड-ब)

(अंक : 5 × 5 = 25)

नोट :- सभी पाँच प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न में विकल्प का चयन कीजिए (उत्तर-सीमा 200 शब्द)। प्रत्येक प्रश्न 5 अंक का है।

Section-C

(Marks : 10 × 3 = 30)

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

(खण्ड-स)

(अंक : 10 × 3 = 30)

नोट :- पाँच में से किन्हीं तीन प्रश्नों के उत्तर दीजिए। (उत्तर-सीमा 500 शब्द)। प्रत्येक प्रश्न 10 अंक का है।

BI-309

(1)

SP-668 P.T.O.

Section–A

2 each

1. (i) Define Environmental Biology.
- (ii) What do you mean by Hydrosphere ?
- (iii) What do you understand by Aestivation ?
- (iv) Define Ecophysiological Adaptations.
- (v) What do you mean by Productivity ?
- (vi) What is 'Tundra' and where these biomes are found ?
- (vii) Name the different types of Aquatic ecosystem.
- (viii) What do you understand by Succession ?
- (ix) Define Biogeographic region of the world.
- (x) What do you mean by man-made ecosystem ?

Section–B

5 each

2. Explain the concept and scope of Environmental Biology.

Or

Write the cellular interactions with environment with special reference to light.

3. Write a note on thermal power of water and survival limits.

Or

Explain the ecophysiological adaptations with special reference to desert.

4. Write a note on Grasslands including grazing lands.

Or

Explain stratification with special reference to Himalayan ecology.

5. Write a note on ecological peculiarities of marine ecosystem.

Or

What do mean by Estuarine ? Explain the adations found here including impact on fauna.

6. Describe the socio-ecological impact of urbanization.

Or

Explain the causes and kinds of succession.

Section–C

10 each

7. Write an essay on the Earth system and Biosphere.

8. Describe the ecophysiological adaptations with special reference to high altitude fauna.

9. Write an essay on Abiotic and Biotic components and their interrelationship.

10. Describe the freshwater ecosystem–Lakes, ponds, springs, rivers and marshes.

11. Write an essay on diversity and productivity.