

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPF-2184

M.Sc. (Final) Examination, 2022

BOTANY

Paper - VIII (b)

(Advanced Plant Ecology-II)

Time : 3 Hours]

[Maximum Marks : 75

The question paper contains three Sections.

Section-A

(Marks : 2 × 10 = 20)

Note :- All the questions are compulsory. The answers of each question are limited upto **50** words. Each answer will carry **2** marks.

Section-B

(Marks : 5 × 5 = 25)

Note :- Answer *five* questions, selecting *one* question from each Unit. The answers of each question are limited upto **200** words. Each answer will carry **5** marks.

Section-C

(Marks : 10 × 3 = 30)

Note :- Attempt any *three* questions in all from this Section. The answers of each question are limited upto **500** words. Each answer will carry **10** marks.

Section-A

2 each

1. Briefly explain :

(i) What are Ephemerals ?

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(1)

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- (ii) Characteristic features of Cold Desert.
- (iii) What is Rhythmic Leaves ?
- (iv) Enlist commercial energy resources.
- (v) Botanical name and family of any *two* Endangered plants of your State.
- (vi) What is Viviparous Germination ?
- (vii) What is Biological Productivity ?
- (viii) What do you understand by Physiological Drought ?
- (ix) Aridity index.
- (x) Suggest botanical names of any *four* desert plants for reclamation of sandy soil.

Section-B

5 each

Unit-I

2. Write an explanatory account on the distribution of deserts.

Or

Discuss briefly the characteristics of desert with special reference to water economy.

Unit-II

3. Explain briefly the mineral resources of the Rajasthan Desert.

Or

Briefly discuss world desert biome with special reference to Thar Desert.

Unit-III

4. Discuss arid regions of India with particular reference to Rajasthan.

Or

Explain briefly the conservation strategies of Endemic plants of Rajasthan Desert.

Unit-IV

5. Discuss underground water resources and its change.

Or

How do climatic features affect ecology of desert plants, citing suitable examples.

Unit-V

6. Write a short note on the survival strategies of desert plants.

Or

Briefly discuss the methods which are used for breaking of hard seed dormancy in desert plants.

Section-C

10 each

7. With the help of suitable map, describe the distribution of deserts in the world. Add a brief account on their characteristic features with special reference to vegetation patterns.
8. Classify the natural resources. Add a note on non-renewable energy resources. Illustrate your answer with suitable examples.
9. What are the characteristic features of saline tracts of Rajasthan ? Add a note on adaptive strategies of inland halophytes, citing examples.
10. What are the important agents of soil erosion in the Indian Thar Desert ? Write a detailed note on desert stabilization techniques.
11. Write explanatory notes on the following :
- (i) Methods for testing seed viability
 - (ii) Perennation in desert plants
 - (iii) Role of fire in desert vegetation

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