

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BFMS-408

M.Sc. (Final) Examination, 2023

BOTANY

Paper - VIII (B)

(Advanced Plant Ecology-II)

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, selecting *one* question from each Unit (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 Hot Desert.
- (ii) Define Cold Desert.
- (iii) What is Rhythmic leaves ?

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- (iv) List the dominant species of haloxeric environment
- (v) Botanical name and family of any *four* endangered plants of Rajasthan.
- (vi) How do you quantify overgrazing ?
- (vii) Define Biological productivity.
- (viii) What do you understand by physical drought ?
- (ix) Aridity index.
- (x) Define Dormancy.

Section–B

Unit–I

2. Briefly discuss factors affecting desert formation.

Or

Illustrate characteristics of cold desert.

Unit–II

3. Describe floral diversity of different phytogeographical regions of Indian desert.

Or

Briefly discuss world desert biomes with special reference to Rajasthan.

Unit–III

4. Illustrate conservation strategies for any *four* threatened plants of Rajasthan.

Or

Describe vegetation of saline areas of Rajasthan.

Unit–IV

5. Explain briefly the characteristic features of geology of Thar desert.

Or

Explain soil types of Thar desert.

Unit–V

6. Describe seed output.

Or

Describe Root investigation.

Section–C

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. Explain biological and mineral resources of Rajasthan.
9. Illustrate saline vegetation and plant adaptation in haloxeric environment.
10. Explain cycles and balances in desert Ecosystem.
11. Explain phenology of the desert plants.