

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPMS-503

M.Sc. (Previous) Examination, 2023

BOTANY

Paper - III

**(Ecology, Phytogeography, Ethnobotany
and Economic Botany)**

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. Briefly explain the following :

- (i) Ecological efficiencies
- (ii) Ecesis

BRI-566

(1)

BPMS-503 P.T.O.

- (iii) Symptoms of CO pollutants on human beings
- (iv) Buffer Zone
- (v) Green belt
- (vi) Aims of Ethno botany
- (vii) Spices and condiments
- (viii) Soft and Hard fibers
- (ix) Pharmacognocoy
- (x) Narcotics

Section-B

2. Write a brief note on the causes and processes of plant succession.

Or

Write short notes on the following :

- (i) Cycling of minerals
 - (ii) Ecological niches 2½,2½
3. Define pollution as per WHO. Add a critical note on sources, consequences and management strategies of water pollution.

Or

Explain the following with examples :

- (i) Endangered plants and their conservation
 - (ii) Indian Forest Conservation Act, 1980. 2½,2½
4. Write a brief account on mechanisms of the plant dispersal and migration. Add a short note on the endemism.

Or

Describe briefly the following :

- (i) Ethnic groups of Rajasthan
- (ii) Characteristics of biomes 2½,2½

5. Describe in brief the origin, botany and cultivation of wheat.

Or

Write botanical name and family of the following :

(i) Sesame

(ii) Sugar beet

(iii) Saffron

(iv) Coriander

(v) Bajra

5×1=5

6. Write a brief account on the industrial plants.

Or

Write on the following :

(i) Guggal

(ii) Bhang

2½,2½

Section-C

7. Write a detailed note on the energy flow models in a well defined ecosystem with the help of suitable diagram.

8. Discuss in detail the effect of environmental pollution on plants and human beings.

9. Write short notes on the following :

(i) Methods for studying ethno botany

(ii) Classification of desert vegetation

5,5

10. Illustrate the general account on pulses and forage legumes of the Indian Thar desert.

11. Enlist any *ten* local plants of medicinal importance of your area and suggest measures to conserve them.