BOT – 129

GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM

III year B.Sc., Program Examinations at V Semester End

Botany Paper – 6 : Plant Ecology and Phytogeography

(Model paper w.e.f. 2018-19)

Time: 3 Hrs.			Max. Marks: 60
		<u>Section – A</u>	5 x 2 =10 M
Answ	er <u>All</u> the following questi	ons. Diagrams are not need	ed
1.	Symbiosis		
2.	Food chain		
3.	Ecads		
4.	Wides		
5.	Biodiversity		
		<u>Section – B</u>	4 x5 =20 M
Answ	er any <u>Four</u> of the followir	ng questions. Draw diagram	s wherever necessary.
6.	Significance of Ecology		
7.	Soil profile		
8.	Carbon cycle		
9.	Density		
10	. Discontinuons species		
11	. Causes of endemism		
12	. Earth summit		
13	. NBA		
		Section – C	$3 \times 10 = 30 M$
Answ	er any <u>Three</u> of the follow	ring questions. Draw neat ar	nd labeled diagrams
where	ever necessary.		

- 14. Write an essay on Light Factors.
- 15. Describe different types of Ecological pyramids
- 16. Discuss the interactions between plants in a community.
- 17. Write an essay on phytogeographic regions of India.
- 18 .Discuss about the biodiversity hotspots in India.

BOT – 129 GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM III B.Sc., Botany Practical examinations at the end of V Semester (Plant Ecology and Phytogeography) Botany Practical Paper - VI model (w.e.f. 2018-19)

Time: 2 hours	Max. Marks: 50

1. Experiment 'A' :Determination of frequency and density for the given ecological data.

Scheme of evaluation: Data analysis and report of Frequency and density values -6 M+ Inference on species dispersal -2 M

2. Experiment 'B': Take T.S of the given material (hydrophyte/xerophte), stain and mount the section, draw labeled diagram, identify with reasons.8 M

Scheme for valuation: Section, slide preparation - 3 marks + Identification - 1 mark + diagram - 2 marks + Reasons - 2 marks.

3. Locate the given 5 places (C) in map of India (National parks/Sanctuaries/Biosphere reseves)

10M

8 M

Scheme for valuation: For each correct mapping -2 M (5 x 2 = 10M)

4. Scientific observation and data analysis $3 \times 4 = 12M$

D :An instrument used in Ecology

E :Hydrophyte/ Xerophyte

F: Biodiversity(an Endemic/Endangered species of India)

 $\label{eq:scheme for valuation:Identification - 1 M + Diagram - 1 M + Reasons - 2 M$

5. Record + Filed note book on local biodiversity + Viva voce 5 + 4 + 3 = 12 M