2025

(FYUGP)

(5th Semester)

BOTANY

(MINOR)

Paper Code: BCC-M-5

(Plant Ecology and Phytogeography)

Pass Marks: 40% Full Marks: 75

Time: 3 hours

(PART : B-DESCRIPTIVE)

(Marks : 50)

The figures in the margin indicate full marks for the questions

1. Explain the components and dynamism of 10 ecosystem.

5+5=10 Write short notes on the following:

- Types of precipitation (a)
- Soil profile (b)

26L/144a

(Turn Over)

2.	Write a note on adaptation of plants to their variations. Or	10
	Discuss the ecological importance of biotic interaction in community structure.	10
3.	and food chains.	10
	Or Do Tagara	
	Discuss the principles and models of energy flow.	10
4.	Explain the significance of continental drift theory in phytogeography.	10
	. Or	
	Discuss the phytogeographical divisions in India.	10
5.	Write short notes on the following: 5+5	=10
	(a) Theory of tolerance	
	(b) Phosphorus cycle	
	Or	
	Write short notes on the following: 5+5	5=10
	(a) Water table	
	(b) Habitat and niche	

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Subject	Code :	Bs/BCC-M-5
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To be filled in by the Candidate

Paper

INSTRUCTIONS TO CANDIDATES

- The Booklet No. of this script should be quoted in the answer script meant for descriptive type questions and vice versa.
- This paper should be ANSWERED FIRST and submitted within 1 (one) Hour of the commencement of the Examination.
- 3. While answering the questions of this booklet, any cutting, erasing, overwriting or furnishing more than one answer is prohibited. Any rough work, if required, should be done only on the main Answer Book. Instructions given in each question should be followed for answering that question only.

Signature of Scrutiniser(s) Signature of Examiner(s)

Booklet No. A

Date Stamp

To be filled in by the Candidate

BA / BSc / BCom / BBA / BCA

5th Semester End Term

Examination, 2025 (FYUGP)

Roll No.

Regn. No.

Subject

Paper

DESCRIPTIVE TYPE

Booklet No. B

Signature of Invigilator(s)

/144

2025
(FYUGP)
(5th Semester)
BOTANY
(MINOR)
Paper Code : BCC-M-5
(Plant Ecology and Phytogeography)
(PART : A—OBJECTIVE)
(Marks : 25)
The figures in the margin indicate full marks for the questions
Put a Tick (✓) mark against the correct answer in the brackets provided: 1×15=15
1. Which water form is most available to plants?
(a) Hygroscopic water (w)
(b) Gravitational water ()
(c) Capillary water
(d) Atmospheric water (vod)
Bs/BCC-M-5/144 [3] [P.T.O.

2.	Pho	toperiodism controls
	(a)	root elongation ()
	(b)	photosynthesis ()
	(c)	flowering time ()
	(d)	leaf orientation ()
3.	The	critical temperature above which plants die is
	(a)	lethal point ()
	(b)	thermal death point ()
	(c)	melting point ()
	(d)	heat saturation point ()
4.	Star	nding crop refers to
	(a)	biomass at a specific time ()
	(b)	population density ()
	(c)	soil fertility ()
	(d)	seedling growth ()
_		belivarg etestal
5.		emism refers to
	(a)	species found everywhere ()
	(b)	species confined to a region ()
	(c)	species with wide range ()
	(d)	None of the above ()
Bs/E	BCC-N	M-5 /144 [4]

6.	Pop	ulation pyramid with broad base indicates	
	(a)	stable population ()	
	(b)	declining population ()	
	(c)	exponential growth ()	
	(d)	stationary growth ()	
7.	Eco	tone refers to	
	(a)	transitional zone ()	
	(b)	niche	
	(c)	biome ()	
	(d)	habitat ()	
8.	A st	able and final community is called	
	(a)	successional stage ()	
	(b)	ecotone ()	
	(c)	food chain ()	
	(d)	climax community ()	
9.	Ene	rgy transfer between trophic levels is about	
	(a)	5% () mineral to multiple the state (a)	
	(b)	10% ()	
	(c)	25% ()	
	(d)	50% ()	
Re/P	ICC-N	1-5/144 [5] [P.T.O.	
D8/12	N-U-IN		

10.	1116	ory of tolerance was proposed by
	(a)	Shelford ()
	(b)	Darwin ()
	(c)	Odum ()
	(d)	Wallace ()
11.	The	biome found in very cold region is
	(a)	tropical ()
	(b)	temperate ()
	(c)	desert ()
	(d)	tundra ()
12.	Ecol	logical niche refers to
	(a)	habitat only ()
	(b)	role and position of species ()
	(c)	food habits only ()
	(d)	competition between species ()
Bs/B		I-5 /144 [6]

13. Negative feedback loops in ecosystem help in			
(a) soil erosion ()			
(b) homeostasis ()			
(c) succession only ()			
(d) pollution control ()			
14. The amount of energy captured by autotrophs is called			
(a) gross primary productivity ()			
(b) net productivity ()			
(c) secondary productivity ()			
(d) efficiency ()			
15. The most realistic representation of feeding interaction is			
(a) food chain ()			
(b) food web ()			
(c) energy pyramid ()			
(d) biomass pyramid ()			
Bs/BCC-M-5/144 [7] [P.T.O.			

1. Define hygroscopic water.

2. Write on precipitation and infiltration. [P.T.O. [9] Bs/BCC-M-5/144

3. Define population density.

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[10]

4. What is thermoperiodism? [P.T.O. [11] Bs/BCC-M-5/144 Scanned with OKEN Scanner 5. What is edge effect?

6. Define climax community.

[P.T.O.

7. Define biome with an example.

8. Define phytogeography. 26L-300 [15]

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