		TO STATE OF	
Vour	Roll	No	

Sl. No. of Ques. Paper: 8450 J

Unique Paper Code : 32165101

Name of Paper : Biodiversity (Microbes, Algae,

Fungi and Archegoniatae)

Name of Course : Botany : G.E. for Honours

Semester : I

Duration : 3 hours

Maximum Marks : 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt five questions in all.

Question No. 1 is compulsory.

All questions carry equal marks.

Draw well-labelled diagrams wherever necessary.

- 1. (a) Define any five of the following:
  - (i) Hormogonia
  - (ii) Columella
  - (iii) Coenobium
  - (iv) Plasmid
  - (v) Endospore
  - (vi) Heterophylly

(vii) Cleistothecium. 5×1=5

(b) Fill in the blanks:

(i) Palmella stage is found in the genus ......

P.T.O.

	(ii) Horsetail is the common	n name for	150
	(iii) Alginic acid is present in	the cell wall of the	emembers
	of class		
	(iv) Viral particles occurring	g in nature without	capsid are
	(v) Stem rust in wheat is ca	aused by genus	.,
	steery : 6.8, ny Monten		5×1=5
(c)	Match the following:		New Y
	Hornwort	Virus	
	Winged pollen grain	Cycas	
	Gongrosira stage	Pinus	
	Capsomeres	Anthoceros	
	Coralloid root	Vaucheria	5×1=5
Dif	Connection between any Connection	Cal C-11	
	ferentiate between any five of	TO SEE AND DESCRIPTION OF THE	
	Lytic and Lysogenic life cycl	BANGER AND PROPERTY OF THE P	
	Gram positive and Gram neg		
	Plurilocular and Unilocular sp		b c' -
	Antheridiophore and Archeg	The state of the s	nantia
	Homospory and Heterospory	mathematics	5.2.15
(1)	Oogamy and Isogamy.	Belgasti.	5×3=15
Writ	te short notes on any three of	the following:	
(a)	Heterocysts	4 4 4 4	
(b) I	Economic importance of fung	i and Community	
(c)	Asexual reproduction in Mar	chantia	District of
d) S	Structure of Bacteriophage.	A six separate can d	3×5=15
10			

4.	Pr	aw well labelled diagrams of any three of the follow	ring:
	(a)	E.M. of Chlamydomonas	
	(b)	V.S. of sporophyll of Pteris	
	(c)	T.S. of coralloid root of Cycas	
	(d)	Structure of <i>Rhizopus</i> with sporangia.	×5=15
5.	(a)	Bacteria boon or curse. Discuss.	6
	(b)	Give a detailed account of adaptations to land h	abit in
		bryophytes.	5
	(c)	Discuss parasexuality in Fungi.	4
6.	(a)	Discuss the disease cycle of Puccinia graminis to	ritici.
			9
	(b)	Enumerate the xerophytic and hydrophytic characteristics	ters of
		Equisetum.	6
7.	(a)	Compare Cyanophyceae, Chlorophyceae and I	haeo-
		phyceae on the basis of thallus structure, cel	l wall
		composition, pigments and reserve food material.	Write
		one genera belonging to each class.	6
	(b)	Write the unique characteristics of Anthoceros.	5
	(c)	Write economic importance of gymnosperms.	4

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