3 (Sem-1) BOT M 1 (O)

2019

BOTANY

(Major)

Paper : 1.1

Full Marks: 60

Time: 3 hours

The figures in the margin indicate full marks for the questions

a transference of the facility was been at 100 at 150.

1.	Fill in the blanks with appropriate word(s):					
		1×7=7				
	(a)	Cell wall of algal cell consists of				
×	(b)	Pyrenoid is the protein body with an envelope of starch observed within the				
	318	cell organelle				
	(c)	is an example of parasitic alga.				
	(d)	In Polysiphonia, type of life cycle is				
		- control of the mail governor A				
	(e)	The pit connections are found in				
	11	alga.				
! - E	(f)	Amylum star is found in				
	(g)	Penicillin was discovered by				
20A	/399	(Turn Over)				

2. Define the following terms:

2×4=8

- (a) Heterocyst
- (b) Heterothallism
- (c) Ascospore
- (d) Red rust disease
- 3. Write briefly on any three of the following:

 $5 \times 3 = 15$

- (a) Life cycle patterns in algae
- (b) Modes of reproduction in Coleochaete
- (c) Pigmentation and reserve food products of Polysiphonia
- (d) Characteristic features in Chlorophyceae
- (e) Systematic position and economic importance of Saccharomyces cerevisiae (Yeast)
- **4.** Answer any three of the following: 10×3=30
 - (a) What are the common pigments present in algae? Give an account on the classification of algae on the basis of pigments present in them. 2+8=10

(b) Give a brief account of the life history of

	Ectocarpus	s with	suitable dia	igram.	10
			*		
(c)	Describe	the	vegetative	structure,	
	reproduction and systematic position of				
				C 1 1 11 1	

- Vaucheria with the help of labelled diagrams. 3+5+2=10
- (d) Give an illustrated account of the life history of Phytophthora and explain its mode of perennation in the late blight disease of potato. 8+2=10
- Describe briefly about the life history of (e) Agaricus with the help of neat and labelled diagram. 10
- (f) Write briefly about the different modes of nutrition found in kingdom Fungi with suitable examples. 10

