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

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

2.	Defi	ne 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: 5×3= (a) Life cycle patterns in algae (b) Modes of reproduction in Coleochaete			
· ·	(c) Pigmentation and reserve food product of Polysiphonia			
	(d)	Characteristic features Chlorophyceae	in	

Systematic position and economic importance of Saccharomyces cerevisiae

(a) What are the common pigments present in algae? Give an account on the classification of algae on the basis of

- (b) Give a brief account of the life history of Ectocarpus with suitable diagram. 10
- Describe the vegetative structure. reproduction and systematic position of Vaucheria with the help of labelled diagrams. 3+5+2=10
- 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 Agaricus with the help of neat and labelled diagram. 10
- Write briefly about the different modes of nutrition found in kingdom Fungi with suitable examples. 10

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(Yeast)

4. Answer any three of the following:

pigments present in them.

10×3=30

2+8=10