(i) Printed Pages: 3

1

Roll No.

(ii) Questions : 9

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B.A./B.Sc. (General) 1<sup>st</sup> Semester 1128 BOTANY Paper-A : Plant Diversity-I

Time Allowed : Three Hours][Maximum Marks : 36Note :-- (1)Attempt five questions in all.

- (2) Question No. 1 is compulsory.
- (3) Attempt **four** more questions, selecting **one** from each unit.
- (4) Draw diagrams wherever necessary.

1. (A) Fill in the blanks :

- (i) The filament of Oscillatoria is called \_\_\_\_\_
- (ii) The reserve food material in Dictyota is \_\_\_\_
- (iii) \_\_\_\_\_ is a unicellular ascomycete.
- (iv) Multinucleate gametes in Rhizopus are known as
- (v) The plant body of *Volvox* is multicellular motile colony called as \_\_\_\_\_.

(vi) Alternate host of *Puccinia graminis tritici* is 6×1=6

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Turn over

# (B) Multiple choice questions :

5)	) Multiple choice questions :					
	(i)	Gongrosira stage is found in :				
		(a)	Oscillatoria	(b)	Cladophora	
		(c)	Vaucheria	(d)	Volvox	
	(ii)	Chl	oroplasts are re	ticulate	• in :	
		(a)	Vaucheria	(b)	Dictyota	
		(c)	Volvox	(d)	Cladophora	
	(iii)	(iii) Wart-like swellings on the upper surface of licher				
		thallus are :				
		(a)	Cephalodia	(b)	Cyphellae	
		(c)	Soredia	(d)	Isidia	
5 I.I. *	(iv) Colletotrichum falcatum causes :				auses :	
		(a)	(a) Red rot of sugarcane			
		(b)	(b) Loose smut of wheat			
		(c)	Black rust of	wheat		
		(d) White rust of crucifers				
	(v)	Glomerule occurs in :				
		(a)	Dictyota			
		(b)	Vaucheria			
		(c)	Batracosperm	um	Contract 190	
		(d)	Volvox			

(vi) In Oscillatoria reproduction occurs by :

- (a) Conjugation (b) Budding
- (c) Hormogones (d) Sporulation

6×1=6

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## UNIT-I

- 2. With the help of suitable diagrams describe the sexual reproduction in *Vaucheria*. 6
- 3. Write notes on :

18

- (a) Thallus structure of Volvox
- (b) Cell structure of Bacteria.

#### UNIT-II

3,3

3,3

6

3,3

3500

- 4. Briefly discuss the economic importance of algae as food and in industry. 6
- 5. Describe the following :
  - (a) Post fertilization changes in Batrachospermum
  - (b) Asexual reproduction in Dictyota.

### UNIT-III

- 6. Give an account of the causal organism, symptoms and disease cycle of white rust of crucifers. 6
- 7. (a) Explain thallus of Rhizopus.
  - (b) Give a diagrammatic sketch to illustrate the life cycle of *Saccharomyces cerevisiae*. 3,3

#### UNIT-IV

- 8. Describe the life cycle of *Puccinia graminis tritici* on wheat.
- 9. Write notes on any two of the following :
  - (a) Acervulus of Colletotrichum
  - (b) Basidiocarp of Agaricus
  - (c) Symptoms of loose smut of wheat.

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