(i) Printed Pages : 3

Roll No.

 (ii) Questions :9
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B.A./B.Sc. (General) 1st Semester

(1129)

BOTANY

Paper : A Plant Diversity-I

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :— Attempt five questions in all. Question No. 1 is compulsory. Attempt four more question, selecting one question from each Unit. Draw neat and well-labelled diagrams wherever necessary.

(Compulsory Question)

- 1. (A) Fill in the blanks:
 - (i) _____ is **not** an Ascolichen.
 - Uredial and Telial stages of *Puccinia* are found on _____plant.
 - (iii) ______ is of great use in space flights and nuclear submarines as food and also in recycling oxygen regenerating system.
 - (iv) Fungal component of lichen is called _____.
 - (v) The normal orientation of the cells of the Volvox Coenobium is obtained by _____ of the cells of the sphere.
 - (vi) Thallus of Vaucheria is _____. $6 \times 1=6$

(B) Multiple choice questions :

	(2)	, 1.10	mipre	choice questions :			
	12	(i)algae contains maximum iodine.					
	Tai		(a)	Dictyota	(b)	Laminaria	
	U.		(c)	Sargassum	(d)	Ecotocarpus	
		(ii)	Gongrosira stage of <i>Vaucheria</i> is made up of				
			(a)	Zoospores	(b)	Synzoospores	
			(c)	Akinetes	(d)	Aplanospores	
		(iii) Which of the following is a saprophytic fu				aprophytic fungus?	
			(a)	Ustilago	(b)	Puccinia	
36		eM m	(c)	Colletotrichum	(d)	Agaricus	
		(iv) <i>Rhizopus</i> in commonly known as					
			(a)	Rust	(b)	Smut	
			(c)	Bread mould	(d)	Mushroom	
		(v)	Asexual reproduction in Batrachospermum takes place				
			by _	dary Question)			
			(a)	Zoospores	(b)	Synzoospores	
			(c)	Teleutospores	(d)	Monospores	
		(vi)	Volv	ox colony is know	m as _	(ii) Uredial	
			(a)	Coenobium	(b)	Isidia	
			(c)	Cystocarp	(d)	Fairy's ring 6×1=6	
				UNIT—	I.		
2.	(a)	Describe sexual reproduction in Vaucheria.					
	(b)	(b) Write note on <i>Volvox</i> coenobium.					
3.	(a)	Describe cell structure of Oscillatoria.					
	(b)	Discuss Asexual reproduction in Cladophora.					

Give cell structure in Bacteria studied by you. 2+2+2=6 (c) 0052/FF-8085 2

UNIT-II

- Discuss in detail sexual reproduction in *Dictyota*. Draw its diagrammatic life cycle.
- 5. Write notes on :
 - (a) Fruiting body of Batrachospermum.
 - (b) Chantransia stage in *Batrachospermum*. 3+3=6

UNIT-III

- Give diagrammatic life cycle of three different yeast species studied by you. Draw neat diagrams.
- 7. (a) Discuss asexual reproduction in Albugo candida.
 - (b) Describe as exual reproduction in *Rhizopus*. 3+3=6

UNIT-IV

- 8. Discuss in detail life history of *Puccinia graminis tritici* on wheat and barberry plants. Give its graphic representation. 6
- 9. (a) Write note on fruiting body of Agaricus.
 - (b) Draw V.S. *Lichen* thallus. 4+2=6