(ii) Questions : 9 Sub. Code: 0 0 5  Exam. Code: 0 0 0  B.A./B.Sc. (General) 1st Semester  1125  BOTANY  Paper: A: Plant Diversity—I	
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BOTANY Paper: A: Plant Diversity–I	
Paper : A : Plant Diversity–I	
Paper: A: Plant Diversity-I	
Time Allowed: Three Hours] [Maximum Marks	O#*:
Note: - (1) Attempt five questions in all. Question no. I is compuls  (2) Attempt four more questions, selecting one from e  Unit.  (3) Draw diagrams wherever necessary.	
I. (A) Fill in the blanks:	
(i) A colony with a definite shape, size and arrangem of cells is known as	ent
(ii) The Chloroplast of <i>Cladophora</i> is	
(iii) Chantransia stage multiplies indefinitely by	
(iv) In <i>Rhizopus</i> sexual reproduction takes place	by
(v) In Albugo the zoospores are	
(Shape and flagellation	n)
(vi) The cell wall in bacteria is composed  6×1=	

## (B) Multiple choice questions:

- (i) Which of the following is a prokaryotic algae?
  - (a) Volvox
  - (b) Cladophora
  - (c) Oscillatoria
  - (d) Vaucheria
- (ii) The principal pigment of Phaeophyceae is:
  - (a) Phycoerythrin
  - (b) Phycocyanin
- vanduament (c) Siphonoxanthin
- does montang gr (d) Fucoxanthin
  - (iii) Oogamous sexual reproduction is seen in:
    - (a) Vaucheria
    - (b) Oscillatoria
    - (c) Cladophora
    - (d) Batrachospermum
  - (iv) All fungi are:
    - (a) Symbiants
    - (b) Parasites
    - (c) Saprophytes
    - (d) Heterotrophs
  - (v) Loose smut of wheat is caused by:
    - (a) Albugo
    - (b) Ustilago
    - (c) Puccinia
    - (d) Colletotrichum

		(a) Filliary mycenum
		(b) Secondary mycelium
1,4		(c) Tertiary mycelium
		(d) Haploid mycelium $6 \times 1 = 6$
		(b) Haplo-diplobiontic life cycle in Yeasts
)=E×		UNIT-I omnorme sulled (a)
II.	(a)	Describe briefly sexual reproduction in <i>Vaucheria</i> with the help of suitable diagrams.
	(b)	Describe asexual reproduction in Volvox. 3,3
III.	Wri	te notes on any three of the following:
	(a)	Movements in Oscillatoria
	(b)	Nutrition in bacteria wolld off loows you to man A XI
	(c)	Systematic position of Xanthophyceae
	(d)	Thallus Structure in <i>Cladophora</i> . 3×2=6
	E	(c) Basidio carp of ACIARICUS at allee to
		UNIT-II
IV.	(a)	Describe briefly the post-fertilisation changes in Batrachospermum.
	(b)	Discuss the role of algae in Agriculture. 4,2
V.	Give	e the diagrammatic representation of the life-history of <i>Dictyota</i> .
		0×1=0

(vi) In Agaricus fruiting body is made up of:

To the base	UNIT-III	
VI. Give the name of Crucifers. Give	of causal organism and symptoms of which the asexual reproduction of the Pathogo	te rust of
VII. Attempt any tw	o of the following:	1,2,3
(b) Haplo-dipl	oroduction in <i>Rhizopus</i> lobiontic life cycle in Yeasts	
	ucture in Yeasts.	2×3=6
	Describe briefly sexual reproduction     being of surtable diVI-TINU	
i uccima gr	Interpretation of Sugarcane.	tory of 1,3
(a) External mor	of the following:  phology of Lichen Thallus  of wheat	
(c) Basidio carp	of AGARICUS	×2=6