Exam.Code:0001 Sub. Code: 0052

## 2041

## B.A./B.Sc. (General) First Semester Botany

Paper – A: Plant Diversity - I

Time allowed: 3 Hours

I.

Max. Marks: 36

**NOTE**: Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting one question from each Unit. Draw neat and well labeled diagrams wherever necessary.

*x-x-x* 

A. Fill in the blanks:-	·	
a) structure in bacterial cell plays an important role in genetic engineering.		
b) Oscillatoria reproduces asexually by		
c) Lose smut of wheat is caused by		
d) plays an important role as air pollution indicator.		
e) Batrachospermum is also commonly known as		
f) Synzoospore are found in (6x1)		
· · · · · · · · · · · · · · · · · · ·	(OKI)	
B. Multiple Choice Questions.		
a) Coenoytic hyphase thallus is found in		
(i) Vaucheria	(ii) Rhizopus	
(iii) Albugo	(iv) All of these	
b) Female reproductive organs in red algae is		
(i) Oogonium	(ii) Sporogonium	
(iii) Carpogonium	(iv) Archegonium	
c) Appearance of dichotomy in thallus due to evection is seen in		
(i) Cladephora	(ii) Dictyota	
(iii) Rhyzopus	(iv) Batrachospermum	
d) Class of fungi which takes sexual reproduction		
(i) Ascomyceles	(ii) Basidiomyceles	
(iii) Phycomyceles	(iv) Denteromyceles	
e) In many bacteria, the plasma membrane gives rise to in foldings called		
(i) Mesosome	(ii) Lysosome	
(iii) Lomasome	(iv) Acrosome	

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(2)

	f) Rhizopus is commonly ca	alled	
	(i) Black mould	(ii) Pink mould	
	(iii) Green mould	(iv) Puff ball	(6x1)
		<u>UNIT – I</u>	
II.	Draw diagrammatic life cycle of	of Cladophora.	(6)
III.	Write short notes on any two or a) Describe sexual reproduble Describe coenobium c) Draw well labeled structure.	action in Vaucheria	(3+3)
		UNIT – II	
IV.	Draw diagrammatic life cycle	of Dictyota and explain its sexual reprodu	uction.
	· .		(6)
V.	Write short notes on any two o  a) Use of algae as food  b) Asexual reproduction o  c) Chantransia stage of Ba	f Dictyota	(3+3)
		UNIT – III	
VI. VII.	Describe the casual organism,  a) Explain asexual reproduction	symptoms and disease cycle of white rust	of crucifers. (6)
v 11.	· -	cycle of Saccharomyces cerevisiae	(3+3)
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III.	Draw diagrammatically life cy	<u>UNIT – IV</u>	(6)
			(6)
IX.	Write short notes on any two o  a) Basidiocarp of Agaricu b) Asexual reproduction is c) Different types of liche	s n Ustilago	(3+3)