Exam.Code:0001 Sub. Code: 0052

2012

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

Paper – A: Plant Diversity - 1

Time allowed: 3 Hours

Max. Marks: 36

NOTE: Attempt five 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

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I.	(A) Fill in the blanks:-		
	 a) Common name of Batrachospermum is b) The filament of oscillatoria is called c) The fungal component of lichen is called d) algae is used in space flights and nuclear submarines as food and source of oxygen. 		
	e) class of fungi lacks sexual reproduction.		
f) Gongrosira stage of vaucheria is made up of			
	(B) Multiple Choice Questions:-		
	a) Asexual reproduction in Batrachospermum takes place by		
	(i) Zoospores	(ii) Monospores	
	(iii) Spermetia	(iv) Lynzoospores	
	b) Bread mould is common name of	() symbological	
	(i) Rhizopus	(ii) Ustilago	
	(iii) Saccharomyces	(iv) Puccinia	
	c) Wart like swellings on the upper surface of lichen thallus are		
	(i) Cephalodia	(ii) Soredia	
	(iii) Cyphellae	(iv) Isidia	
	d) Colletotrichum falcatum causes		
	(i) Red rot of sugarcane	(ii) Black rust of wheat	
	(iii) White rust of crucifers	(iv) Loose smut of wheat	
	e) Oscillatoria reproduces vegetatively by		
	(i) Akinetes	(ii) Heterocysts	
	(iii) Hormogonia	(iv) All of these	

Sub. Code: 0052

(2)

	f) The extra nuclear genome present	in bacteria is known as:-		
	(i) Pro chromosome	(ii) Cytoplasmic DNA		
•	(iii) Plasmid	(iv) All of these	(6x1)	
	<u>UNIT</u> -	<u>- I</u>		
II.	a) Describe asexual reproduction of Va	ıcheria.		
	b) Write note on coenobium of Volvox.		(3,3)	
III. Write short notes on any two of the following:-				
a) Describe sexual reproduction in Cladophora.				
b) Draw well labeled diagram of a Bacterial cell.				
	c) Draw graphic life cycle of Volve	ox.	(3+3)	
UNIT – II				
IV.	Draw diagrammatic life cycle of Dicty	ota.	(6)	
V.				
	a) Post fertilization changes in Batrachospermum			
b) Use of algae as food				
	c) Chantransia stage of Batrachosp	ermum	(3+3)	
	<u>UNIT</u> -	<u>-III</u>		
VI.	Draw diagrammatic life cycle of three of	lifferent species of yeast.	(6)	
VII.	Discuss asexual reproduction in Albugo	and Rhizopus.	(3+3)	
	<u>UNIT -</u>	<u>- IV</u>		
VIII.	Describe the life cycle of Puccinia graminis tritici on wheat.		(6)	
IX.	IX. Write short notes on any two of the following:-			
	a) Basidio carp of Agaricus			
	b) Symptoms of loose smut of whe	eat		
	c) Draw V.S. Lichen thallus.		(3+3)	
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