No. of Printed Pages : 9

SARDAR PATEL UNIVERSITY B.Sc. SECOND SEMESTER NOT CLEAR EXAMINATION 2016

SATURDAY 15th OCTOBER 02:00 TO 04:00 pm USO2CBIO 02

(THALLOPHYTA, BRYOPHYTA AND PTERIDOPHYTA)

Marks: 70

Note: 1. Answers of all the questions (including multiple choice questions) should be written in the provided answer book only

2. Draw neat and labeled diagrams wherever necessary Q.1. Select the correct answer and write it in the answer sheet. [10]1. Study of algae is called (a) Phycology (b) Mycology (c) Geology (d) Ecology 2. Volvox colony with definite number of cells is known as (a) Pseudopodium (b) Coenobium (c) Conidium (d) Gonidium 3. Star shaped chloroplasts are present in _____ (a) Volvox (b) Nostoc (c) Zygnema (d) Ectocarpus **4.** Fungal cell wall is made up of (a) Chitin (b) Cellulose (c) Lignin (d) Pectin 5. Mushrooms are rich in (a) Carbohydrates (b) Proteins (c) Pigments (d) Fats **6.** is known as horn wort (a) Funaria (b) Riccia (c) Anthoceros (d) Marchantia 7. The upper narrow part of archegonium is known as ____ (a) Neck (b) Venter (d) Stalk **8.** Group of sporangia in Fern is known as (a) Sporangiophore (b) Sorus (c) Sporophyll (d) Strobillus 9. Stele in which xylem is broken into isolated plates is known as ___ (a) Mixed protostele (b) Actinostele (c) Plectostele (d) Siphonostele 10. Sporophyll is a fertile leaf that bears _____ (a) Antheridia (b) Archegonia (c) Conidia (d) Sporangia

(PTO)



Q.2. Answer the following questions in brief (Any 10)	[20]
1. Sketch and label Nostoc filament	[
2. Describe the structure of <i>Volvox</i> colony	
3. What is cystocarp?	
4. Comment on budding in Yeast	
5. Explain the structure of <i>Rhizopus</i> mycellium	
6. State the economic importance of <i>Penecillium</i>	
7. Describe the structure of antheridia	
8. Name the three main parts of Anthoceros sporophyte and state their functions	
9. State the functions of rhizoids and enlist their types in Riccia	
10. Define actinostele	
11. State the xerophytic peculiarities or Equisetum stem	
12. Sketch and label Fern sporangia	
Q.3. (a) Discuss the asexual reproduction in Volvox	[05]
(b) Explain the scalariform conjugation in Zygnema	[05]
OR	
Q.3. (a) Describe the plurilocular sporangia of Ectocarpus	[05]
(b) Explain the thallus structure of Batrachospermum	[05]
Q.4. (a) Discuss the asexual reproduction in Rhizopus	[05]
(b) Write note on Lichens	[05]
OR	f
Q.4. (a) State the economic importance of Fungi	[05]
(b) Describe the mycellium of Penecillium	[05]
Q.5. (a) Describe the external morphology of <i>Riccia</i> thallus	[05]
(b) Draw a labelled diagram of L.S. of Funaria capsule	[05]
OR	[OD]
Q.5. (a) Explain the sexual reproduction in Anthoceros	[06]
(b) Describe the sporophyte of <i>Riccia</i>	[04]
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Q.6. With a labelled diagram describe the internal structure of Equisetum	[10]
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OR	
Q.6. Explain the anatomy of <i>Lycopodium</i> stem with labelled diagram	[10]
	[**)

ALL THE BEST