2016

BOTANY

(Major)

Paper: 1.1

Full Marks: 60

Time: 3 hours

The figures in the margin indicate full marks for the questions

- 1. Fill in the blanks with appropriate word(s):

 1×7=7
 - (a) Leaf-like structure of multicellular alga is called _____.
 - (b) In Coleochaete, the oogonium bears a protuberance called ____.
 - (c) Algin, a thickener, used in ice cream and cake decoration is extracted from algae.
 - (d) ____ is the reserved food material found in Cyanophyceae.

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(Turn Over)

		-	
	(e)	Function of haustoria in fungi is	
•	<i>(f)</i>	Crozier formation is observed in	_·
	(g)	Reserved food material in plants	is
			
2.	Defi	ne the following terms :	2×4=8
	(a)	Teleomorph	
	(b)	Anisogamy	
	(c)	Phylogeny	
	(d)	Symbiosis	
3.	Wri	ite briefly on any three of the following	ıg : 5×3=15
	(a)	Haplodiplontic life cycle	
	(b)	Degeneration of sex in fungi	
	(c)	Algal bloom	
	(đ)	Lichen	
	(e)	Lithotrophs	
4.	An	swer any three of the following:	10×3=30
	(a)	Discuss the utility of pigments reserved food materials in classification of algae.	
A7/	42	(Co	ntinued

cycle of Volvox with

Write the system importa · economic myces. Give representation of

Saccharomyces with

(b) Explain the thallus

(d) Give an outline of nutrition found in suitable examples.

(e) What are the distin Cyanophyceae? Giv ecological and agri

of blue-green algae

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(Major)

Paper: 1.2

Full Marks: 60

Time: 3 hours

The figures in the margin indicate full marks for the questions

1. Choose the correct answer :

1×7=7

- (a) Elaters in bryophytes help in
 - (i) assimilation of CO2
 - (ii) dispersal of spores
 - (iii) vegetative reproduction
 - (iv) sexual reproduction
- (b) Which of the following steles is considered to be the most primitive?
 - (i) Haplostele
 - (ii) Plectostele
 - (iii) Solenostele
 - (iv) Dictyostele

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(Turn Over)

(iv) peat moss

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(g) Which of the follow not occur in Selagi

(i) Ligule

(ii) Ramenta

(iii) Trabecula

(iv) Rhizophore

- 2. Distinguish between the
- (a) Eusporangiate and types of developmen
 - b) Prothallus and Prot
 - (c) Haplostele and Mix (d) Homospory and He
- 3. Write short notes on following:
- (a) Heterospory and se
 - (b) Sporocarp of Marsil
 - (c) Water absorption mechanism in Spho
 - (d) Economic important
 - (e) Rhizophore of Selag

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(Continued)

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4. Answer the following questions		
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10×3=30

10

10

(a) Give an account of the morphology and reproduction of Psilotum nudum. 10

Or

Discuss the telome theory of evolution of sporophyte.

(b) What is meant by alternation of generation? Explain with reference to the life history of Polytrichum. 2+8=10

higher of develop to in Or colevob to requi

Give a comparative account on the sporophytes of *Riccia*, *Marchantia* and *Anthoceros*.

(c) Give a general account on various methods of spore dispersal in bryophytes.

Or

Compare and contrast among the spore-bearing organs of Lycopodium, Selaginella and Equisetum with labelled diagrams.

A7-4700/43

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