# <u> PART – A</u>

### Answer ALL the questions

I.		bose the correct answer	(5 X 1 = 5)		
	1.	A) Rhodophyceae		C) Chlorophyceae inarin iii) Floridean starch b. A – III ,B – II ,C- IV , D – I d. A – I ,B – II, C – III , D – IV	D) Myxophyceae iv) starch
	<ol> <li>Statement 1: <i>Polysiphonia</i> does not exhibit siphonous thallus.</li> <li>Statement 2: <i>Polysiphonia</i> carpospores are haploid structures.</li> </ol>				
		<ul> <li>a. Statement 1 &amp; 2 are incorrect</li> <li>c. Statement 1 is correct but <ul> <li>-statement 2 is incorrect</li> </ul> </li> </ul>		b. Statement 1 is incorrect but Statement 2 is correct d. Statement 1 & 2 are correct	
	3.	Pick the odd one out. a. Acervulus	b. Synnemata	c. Apothecium	d. Pycnidia
	4.	<ul> <li>4. Statement 1: <i>Puccinia</i> is a heteroecious fungus. Statement 2: In <i>Puccinia</i>, uredial and telial stages are found in primary host. <ul> <li>a. Statement 1 is true but 2 is false.</li> <li>b. Statement 1 is false but 2 is true.</li> <li>c. Statement 1&amp;2 are false.</li> <li>d. Statement 1 &amp; 2 are true.</li> </ul> </li> <li>5. Pseudoelaters are found in the sporophytes of <ul> <li>a. Anthoceros</li> <li>b. Riccia</li> <li>c. Funaria</li> <li>d. Marchantice</li> </ul> </li> </ul>			
	5.				
П.	Sta	State whether the following statements are True\False. (5x1=5)			
	<ol> <li>Diplobiontic life cycle is found in <i>Polysiphonia</i>.</li> <li>In <i>Ectocarpus</i> the plurilocular gamatangia are produced upon the plants which are developed from the zoospores of unilocular sporangia.</li> <li>Ascocarp is the name of the fruit body in Basidiomycetes.</li> <li>Perithecium is present in <i>Neurospora</i>.</li> <li>In <i>Funaria</i> the sporophyte is differentiated into stem &amp; leaves.</li> </ol>				
III.	Со	mplete the following	(5x1=5)		
	11	<ol> <li>The nutrition of algae is said to be</li> </ol>			
	12 stage of <i>Volvox</i> consists of 8 cells.				
	13 are present in <i>Albugo</i> for the absorption of food materials from the host.				rom the host.
	14. Wheat rust disease is caused by				
	15. <i>Nostoc</i> colonies are present in the thallus of				

(20 marks)

#### IV. Answer ALL, each in about 50 words.

- 16. What are heterokont flagella?
- 17. Write two points about Algal Biofertilizer.
- 18. Enumerate any two points about Mycelia of Basidiomycetes.
- 19. What is a Lichen? Give one example.
- 20. Mention any two econon importance of Bryophytes.

## PART-B

#### Answer the following, each within 500 words, draw diagrams or flowcharts wherever necessary

21. a. What are the different habitats of Algae?

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- b. Draw a labeled sketch of a yeast cell.
- 22. a. Describe the structure and reproduction of Anabaena.

Or

- b. Explain the asexual reproduction in Vaucheria.
- 23. a. Enumerate the characteristic features of Ascomycetes.

Or

- b. Explain the nutrition of fungi.
- 24. a. Write any seven economic importance of Fungi.

Or

- b. Give an account on the types of Lichens.
- 25. a. Draw and describe the external and internal structure of Anthoceros thallus.

Or

b. Draw a labeled sketch of L .S. of Capsule of Funaria.

#### <u>PART -C</u>

# Answer any THREE of the following, each within 1200 words, draw diagrams or flowcharts wherever necessary

(3 x 15 = 45 marks)

- 26. Enumerate the salient features of any three algal divisions.
- 27. Write an essay on the economic importance of Algae.
- 28. Describe the types of sexual reproduction in Fungi.
- 29. Draw and describe the life- cycle of *Puccinia*.
- 30. What is "Alternation of generations"? Explain it with reference to Marchantia.

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(5x1=5)

(5 x 7 = 35 marks)