[Time: Three Hours]

Please check whether you have got the right question paper.

[Marks. 100]

	N.B: i) All questions are compulsory ii) Figures to the right indicate full marks iii) Draw neat and labeled diagrams whenever necessary	
Q.1	A. Choose the correct option from the following:	\$ 10
	a) Reserve food material in chlorophyta isi) oil ii) proteins iii) fats iv) starch	
	 b) Spirogyra belongs to order i) oscillatoriales ii) zygnematales iii) heterosiphonales iv) ectocarpales 	
	c) The chloroplast of is spiral shaped i) Volvox ii) Nostoc iii) Spirogyra iv) Zygnema	
	d) Nostoc reproduces by methods. i) vegetative and asexual ii) sexual and asexual iii) vegetative and sexual iv) vegetative, sexual and asexual	
	e) The cell wall of the fungal hyphae is made up of i) chitin ii) pectin iii) cellulose iv) lignin	
	f) are non motile spores formed in sporangia on sporangiophores. i) Aplanospores ii) Zoospores iii) Conidiospores iv) Zygospores	
180 C	g) Fungi growing on dung of various animals is known as i) obligate parasite ii) facultative parasite iii) coprophilous iv) predacious	
	h) Genus <i>Riccia</i> is a i) bryophyte ii) pteridophyte iii) fungi iv) algae	
	 i) The antherozoids of <i>Riccia</i> are i) quadriflagellate ii) uniflagellate iii) biflagellate iv) multiflagellate 	
	j) In <i>Riccia</i> , the sporophyte is made up of i) foot ii) seta iii) capsule iv) foot, seta, capsule	

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a b c d	 What is heterocyst? What is mycelium? State the different parts of <i>Rhizopus</i> thallus. Name the male and female sex organs of <i>Riccia</i>. 	10
a) Eb) Ec) E	Explain sexual reproduction in <i>Spirogyra</i> . Describe the structure of <i>Nostoc</i> colony, single filament and single cell. Explain different shapes of chloroplasts observed in Chlorophyta.	20
a) (b) Ic) I	Give a detailed account of asexual reproduction of <i>Rhizopus</i> . Discuss the sexual reproduction of <i>Aspergillus</i> . Describe the different modes of nutrition in fungi.	20
a) Ib) Cc) V	Describe the structure of sporophyte in <i>Riccia</i> . Give the systematic position of <i>Riccia</i> and explain the internal structure of its thallus. Write a detailed note on general characters of Hepaticae.	20
a) Vb) Sc) Fd) Ce) F	Vegetative cell of Spirogyra Systematic position of Nostoc Harmful effects of Fungi Gametangia of Rhizopus Fertilization in Riccia	20
	Answer a) H b) I c) H d) O Answer a) I c) I d) O Answer a) I b) O c) V d) I Write sh a) V b) S c) H d) O e) H	B. Answer the following in one sentence: a) What is heterocyst? b) What is mycelium? c) State the different parts of <i>Rhizopus</i> thallus. d) Name the male and female sex organs of <i>Riccia</i> . e) What are the different pigments found in chlorophyta. Answer any two from the following: a) Explain sexual reproduction in <i>Spirogyra</i> . b) Describe the structure of <i>Nostoc</i> colony, single filament and single cell. c) Explain different shapes of chloroplasts observed in Chlorophyta. d) Give a brief account of economic importance of algae. Answer any two from the following: a) Give a detailed account of asexual reproduction of <i>Rhizopus</i> . b) Discuss the sexual reproduction of <i>Aspergillus</i> . c) Describe the different modes of nutrition in fungi. d) Give an account of economic importance of fungi. Answer any two from the following: a) Describe the structure of sporophyte in <i>Riccia</i> . b) Give the systematic position of <i>Riccia</i> and explain the internal structure of its thallus. c) Write a detailed note on general characters of Hepaticae. d) Describe the gametophytic generation of <i>Riccia</i> . Write short notes on (any four): a) Vegetative cell of <i>Spirogyra</i> b) Systematic position of <i>Nostoc</i> c) Harmful effects of Fungi d) Gametangia of <i>Rhizopus</i> e) Fertilization in <i>Riccia</i> f) Spore and its germination in <i>Riccia</i>

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