[Time: Three Hours]

Please check whether you have got the right question paper.

[Marks. 100]

	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: a) are also called resting spores. i) Heterocysts ii) Hormogones iii) Akinetes iv) Vegetative cells
	b) <i>Nostoc</i> is used in reclamation of soils. i) acidic and saline ii) sandy and acidic iii) alkaline and sandy iv) alkaline and saline
	 c) In <i>Spirogyra</i>, when cells from opposite filaments take part in sexual reproduction it is called i) Scalariform conjugation ii) Looping conjugation iii) Lateral conjugation iv) None of the above
	d) Spirogyra showstypes of alternation of generation. i) haplontic ii) diplontic iii) diplohaplontic iv) haplodiplontic
	e) In Aspergillus, the conidia are formed in succession. i) basipetal ii) acropetal iii) basipetal and acropetal iv) none of these
2000 J	f) The cytoplasm of <i>Rhizopus</i> mycelium is i) septate, uninucleate ii) septate, multinucleate iii) aseptate, uninucleate iv) aseptate, multinucleate
	g) Mass of white, delicate cottony threads is collectively known as i) mycelium ii) columella iii) hyphae iv) spore
	h) Sporophyte in liverworts is i) fully independent ii) partially dependent on gametophyte iii) partially independent iv) fully dependent on gametophyte
	i) In <i>Riccia</i> , the thallus reproduces vegetatively by i) fragmentation ii) persistant apices iii) tuber formation iv) all of the above
	j) The antherozoids of <i>Riccia</i> are

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Paper / Subject Code: 81107 / Botany: Paper I

	 B. Answer the following in one sentence: a) Name the orders of <i>Spirogyra</i> and <i>Nostoc</i>. b) Define conjugation. c) What are chlamydospores? d) Define Parasitism. e) Give the functions of scales in <i>Riccia</i>. 	
Q 2	 Answer any two from the following: a) Give economic importance of algae as biofertilizers and food. b) Describe sexual reproduction in <i>Spirogyra</i>. c) Give the systematic position of <i>Nostoc</i>. Add a note on its occurrence and economic importance. d) Write a detailed account on range of thallus in chlorophyta. 	20
Q.3	Answer any two from the following: a) Describe sexual reproduction in <i>Aspergillus</i> . b) Give systematic position and asexual reproduction of <i>Rhizopus</i> . c) State the general characters of phycomycetes. d) Write a detailed account on economic importance of fungi.	20
Q.4	 Answer any two from the following: a) Describe the external morphology of <i>Riccia</i>. Add a note on its systematic position. b) Give an account of the sporophytic generation of <i>Riccia</i>. c) Write a detailed account on general characters of Hepaticae. d) Describe the V.S. of thallus of <i>Riccia</i>. 	20
Q.5	Write short notes on (any four): a) Structure of <i>Nostoc</i> vegetative cell b) Systematic position of <i>Spirogyra</i> c) Thallus structure of <i>Aspergillus</i> d) Saprophytism as a mode of nutrition in fungi e) Vegetative reproduction in <i>Riccia</i> f) <i>Riccia</i> spore and its germination	20