[Time: Three Hours]

Please check whether you have got the right question paper.

[Marks. 100]

	iii) Draw neat and labeled diagrams whenever necessary	
.1	A. Choose the correct option from the following:	
	 a) The chloroplast in <i>Spirogyra</i> is shaped. i) disc ii) cup iii) spiral iv) star 	XXX
	 b) is not the type of conjugation in <i>Spirogyra</i>. i) Looping ii) Lateral iii) Reticulate iv) Scalariform 	
	i) Looping ii) Lateral iii) Reticulate iv) Scalariform	
	c) Chlorophyta contains as main pigments. i) Chlorophyll a & b ii) Chlorophyll a & c iii) Chlorophyll b & d	
	i) Chlorophyll a & b ii) Chlorophyll a & c iii) Chlorophyll b & d iv) Chlorophyll b & c	
	d) Nostoc reproduces by methods.	
	d) Nostoc reproduces by methods. i) vegetative and asexual ii) vegetative and sexual	
	iii) vegetative, sexual and asexual iv) sexual and asexual	
	e) Fruiting body of <i>Aspergillus</i> is called	
	e) Fruiting body of <i>Aspergillus</i> is called i) Apothecium ii) Cleistothecium iii) Perithecium iv) Epithecium	
	f) Mass of white, cottony threads of fungi are called	
	i) mycelium ii) columella iii) sporangium iv) conidium	
N	g) Rhizopus belongs to order	
189.25 1975	i) Mucorales ii) Aspergillales iii) Erysiphales iv) Pucciniales	
10 K	h) The aquatic species of <i>Riccia</i> is	
	i) Riccia discolor ii) Riccia fluitans iii) Riccia himalayensis iv) Riccia ad	lba
36,75	i) represents the main plant body of <i>Riccia</i> .	
	i) Sporophyte ii) Gametophyte iii) Sporophyte on Gametophyte	
1 9 C	iv) None of the above	
307	j) <i>Riccia</i> reproduces vegetatively by	

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	В.	Answer the following in one sentence : a) What is coenobium?	
		b) What is coenocytic mycelium?	282
		c) Define haustoria.	
		d) Why bryophytes are called amphibians of plants kingdom?	
		e) State the functions of heterocyst.	
Q 2	Answe	er any two from the following:	20
		a) Describe vegetative cell structure of <i>Spirogyra</i> . Add a note on its systematic position.	!
		b) Write a detailed note on range of thallus in chlorophyta.	
		c) Explain reproduction in <i>Nostoc</i> .	
		d) Write an account on alternation of generations in chlorophyta.	
Q.3	Answe	er any two from the following:	20
	a)	Give the beneficial aspects of fungi.	
	b)	Describe the modes of nutrition in fungi.	
	c)	Explain asexual reproduction of Aspergillus in detail.	
	d)	Discuss sexual reproduction in <i>Rhizopus</i> .	
Q.4	Answe	er any two from the following:	20
		Describe the structure of sex organs in <i>Riccia</i> .	
		Write a detailed account on general characters of Hepaticae.	
		Give the systematic position and describe the external morphology of <i>Riccia</i> .	
	d)	Describe V.S. of thallus of <i>Riccia</i> .	
	200		
Q.5	Write	short notes on (any four):	20
	a)	Algae as biofertilizers	
8	28. 02. 3.1	Alginates	
19 K		Thallus structure of <i>Rhizopus</i>	
D. A.	Y 04. 20. 0	Systematic position of Aspergillus	
\$ 9 C	1, -1, -0, 1	Fertilization in <i>Riccia</i>	
300	f).	Types of rhizoids in <i>Riccia</i>	
	3 2 2 3		
200	37,35		
300	4 2 3 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6		
800	20,43		
19700	20 V	, 8, 25, 7, 9, 75, 7, 7, 8,	