[Time: Three Hours]

Q.P. Code :19327

[ Marks:100]

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	Please check whether you have got the right question paper.	
	N.B: 1. All questions are compulsory.	
	2. Figures to the right indicate full marks.	
	3. Draw neat and labelled <u>diagrams</u> wherever <u>necessary</u> .	
<b>Q. 1</b> A)	Choose the <u>correct option</u> from the following:	10
a)	Alternation of generation in <i>Spirogyra</i> is	2017:30
	i) haplontic ii) diplontic iii) haplodiplontic iv) diplohaplontic	30, 100 P
b)	Sexual reproduction is absent in	20,25 K
	i) Zygnema ii) Spirogyra iii) Chlamydomonas iv) Nostoc	XX.
c)	Spirogyra belongs to order	2
	i) Zygnematales ii) Oscillatoriales iii) Ectocarpales iv) Heterosiphonales	
d)	Reserve food materials in chlorophyta is	•
	i) oils & proteins ii) proteins & starch iii) oils, starch & proteins iv) starch	
e)	Foot cell in Aspergillus isshaped.	
	i) T ii) U iii) L iv) C	
f)	Aspergillus showstype of fruiting body.	
	i) Cleistothecium ii) Hormogonium iii) Apothecium iv) Perithecium	
g)	The cell wall of fungi is made up of	
	i) cellulose ii) pectin iii) chitin vi) lignin	
h)	Aquatic species of <i>Riccia</i> is	
	i) Riccia discolor ii) Riccia fluitans iii) Riccia himalayensis iv) None of the above	
i)	The antherozoids of <i>Riccia</i> are	
	i) monoflagellate ii) biflagellate iii) quadriflagellate iv) multiflagellate	
j)	Riccia shows presence of on dorsal side of thallus.	
	i) sex organs ii) scales iii) rhizoids iv) air pores	
B)	Answer the following in one sentence:	10
a)	What is Heterocyst?	
b)	Name the type of chloroplast found in Spirogyra.	
	What is a zygospore?	
d)	Name the asexual spores in Aspergillus	
e)	What are persistant apices in <i>Riccia</i>	
Q. 2	Answer <u>any two</u> from the following:	20
	\(\delta\)	
- W (T N (U.S.	Give general characters of chlorophyta.	
	Describe the structure of <i>Nostoc</i> colony, single filament and a single cell.	
) d)	Give an account of range of thallus in chlorophyta.	

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Q. 3		Answer any two from the following:	20
	a)	Explain life cycle of Aspergillus with the help of a schematic diagram.	10,000
	b)	Explain thallus structure of <i>Rhizopus</i> . Add a note on its systematic position	
	c)	Describe harmful activities of fungi.	
	d)	Give an account of mode of nutrition in fungi.	
Q. 4		Answer <u>any two</u> from the following:	20
	a)	Describe the structure of sex organs in <i>Riccia</i> .	
	b)	Give the systematic position of <i>Riccia</i> and describe the external morphology of the thallus.	
	c)	Describe the structure of sporophyte in <i>Riccia</i> .	150° C 250,
	d)	Give the general characters of Hepaticae.	8210
Q. 5		Write short notes (any four)	20
	a)	Algae as biofertilizer	
	b)	Vegetative cell of Spirogyra	
	c)	Fungi as food	
	d)	Haustoria	
	e)	Fertilization in <i>Riccia</i>	
	f)	Diagrammatic representation of life cycle in <i>Riccia</i> .	
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