- Please check whether you have got the right question paper.

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N.B: L. All 6	questions	are comp	pulsory.
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2. Figures to the right indicate full marks.

3. Draw neat and labelled diagrams wherever necessary.

Maria d	and antion from the following.
Q.1	A) Choose the correct option from the following:
	a. <i>Spirogyra</i> reproduces by i) Vegetative means ii) Asexual means iii) Sexual means iv) All of these
	b. Spirogyra belongs to orderi) Oscillatoriales ii) Zygnematales iii) Heterosiphonales iv) Ectocarpales
	c. Reserve food material in Chlorophyta is i) Oils & proteins ii) Proteins & starch iii) Starch & pyrenoids iv) oils, starch & proteins
	d. <i>Nostoc</i> is used in reclamation of soils. i) Acidic & saline ii)Sandy & acidic iii) Alkaline & saline iv) Alkaline & sandy
	e. Penicillin was discovered by i) Alexander Fleming ii) A.F Blajeslee iii) Elie Metchinkoff iv) Felix Dujarding
	f is the order of <i>Rhizopus</i> i) Mucorales ii) Aspergillales iii) Puccinales iv) Basidiomycetes
	g. Aspergillosis caused by i) Aspergillus flavus iii) Rhizopus stolonifer iv) Penicillium notatum
	h. are known as amphibians of plant kingdom. i) Algae ii) Fungi iii) Bryophytes iv) Lichens
	 i. Archegonia of <i>Riccia</i> is a shaped structure. i) Sphere ii) Flask iii) Pear iv) Oval
	j. Antherozoids of <i>Riccia</i> are having number of flagella. i) One ii) Two iii) Four iv) None

Q.1 B) Answer the following in one sentence:

- a) Enlist the pigments present in Cyanophyta.
- b) Role of Heterocysts.
- c) Name a fungus which produces penicillin.
- d) What is the name of fruiting body in Aspergillus?
- e) Types of rhizoids in Riccia

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Q.2	Answer	any	two	from	the	fol	low	ing
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a) Describe sexual reproduction in Spirogyra.

b) Give economic importance of algae as bio-fertilizers and food.

c) Describe the structure of *Nostoc* colony, single filament and a single cell, with the help of a neat and labelled diagram.

d) Give a detailed account of scalariform conjugation with the help of neat and labelled diagram.

Q.3 Answer any two from the following:

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- a) With help of suitable diagram describe the life cycle of *Rhizopous*.
- b) Describe the sexual reproduction in Aspergillus.
- c) Give an account of economic importance of fungi.
- d) Give classification of Aspergillus and Rhizopus, add a note on their important characters

Q.4 Answer any two from the following:

- a) Give classification of *Riccia* and explain its internal structure.
- b) Give an account on distinguishing characters of class Hepaticae.
- c) Explain the structure and development of sporogonium of Riccia.
- d) Explain structure of sex organs in *Riccia* and add a note on dehiscence of sex organs.

Q.5 Write Short note on (any four):

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- a) Shapes of chloroplast in chlorophyceae
- b) Alginates
- c) Note on Phycomycetes
- d) Write a note on parasitic Fungi
- e) Structure of spore and spore germination in Riccia.
- f) Diagrammatic representation of alternation of generation in *Riccia*.

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