SYBSC SEM-I EXAMINATION, OCT 2023	
BOTANY PAPER I - PLANT DIVI	ERSITY 1 (USBO101)
TIME -3HRs	TOTAL MARKS-100
N.B.: (1) All questions are compulsory. (2) Figures to the right indicate full marks.	
(3) Draw neat and labeled diagrams wherever r	necessarv
Q.1 (A) FILL IN THE BLANKS	(10 MARK)
The chloroplast in Spirogyra is:	,,
a) Disc shaped b)Spiral	c) Peltate
2. In Aspergillus, the female sex organ is called:	
a) Ascogonium b) Archeg	onium c) Carpogonium
3. Q. 3 Mass of white, delicate, cottony threads collect a) Mycelium b) Hyphae	c) Columella
4. are also called resting spores	c) columena
4 are also called resting spores. a) heterocysts b) akinetes	c) hormogones
a) heterocysts b) akinetes 5. Nostoc reproduces by a) vegetative & asexual b) vegetative & s	
a) vegetative & asexual b) vegetative & s	exual c) sexual & asexual
6. The thallus of Rhizopus consists of	A sittle Co. Lance
a) Rhizoidal hyphae b) Stolons	c) all of above
7. In which bryophyte member, the sporogonium cons a) Anthoceros b) Marchantia	c) Riccia
8. In Riccia, how many rows of vertical cells form the neck of archegonia:	
a) 2 b) 4 c) 6	icon of archiegoria.
9. Sporophyte in liverworts is:	
a) fully independent b) partially independent c)	fully dependent on the gametophyte
10. Reserve food material in Chlorophyta is a) oils & proteins b) proteins & star	a) at a sale 0 minor of the
a) ons & proteins & star	rch c) starch & pyrenoids
Q 1 (B) Answer in one sentence	(10 marks)
1. Which process involves the fusion of two Spi	irogyra filaments in a ladder-like
manner?	
2. What is the specialized cell type in Nostoc re	sponsible for nitrogen fixation?
 What is the mode of nutrition in fungi where they feed on dead organic matter? Name the structure in Rhizopus that contains the gametangia. 	
5. Which structure in Riccia is responsible for the	s the gametangia.
	re production of remaie gainetes:
Q. 2 Answer any two from the following:	(.20 marks)
(a) Describe sexual reproduction in Spirogyra.	
(b) Give economic importance of algae as bio-fertilizers and food.(c) Give the systematic position of Nostoc. Add a note on its occurrence	
and economic importance.	
(d) With the help of neat and labeled diagrams explain different shapes of	
chloroplasts observed in Chlorophyceae.	
Q. 3. Answer any two from the following:	(20 marks)
(a) Describe asexual reproduction in Aspergillus	5.
(b) Give a detailed account of vegetative thallus and asexual reproduction Rhizopus.(c) Describe the sex organs of Aspergillus.	
(d) Give economic importance of fungi.	
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Q. 4. Answer any two from the following:	(20 marks)
(a) Describe the external and internal structure (b) Explain the gametophytic generation in Ricco	of thallus in Riccia.
(c) With the help of well labeled diagram, expla	in the alternation of annuation is
Riccia.	in the alternation of generation in
(d) Write a note on general characters of Hepa	ticae.
Q. 5. Write short notes on: (Any four)	(20 marks)
(a) Alternation of generation in Riccia(b) Sketch and label V. S. of thallus of Riccia	
(c) Saprophytism as a mode of nutrition in fungi	
(d) Systematic position of Rhizopus	,
(e) Algae as nutraceuticals	
(f) Trichome of Nostoc	