SEAT No. Sardar	No. of Printed Pages: 2
Sardar M. So. (II S	emester) Examination
· ·	019, Time: 10.00 am to 1.00 pm
	ology and Diversity of Lower Plants)
1 apor. 1 802 e B e 121 (B e	Total Marks: 70
N.B.: Answers of all the questions (including	ng multiple choice questions) should be written in the
provided answer book only.	
Q1. Choose the most appropriate answer for	the following multiple-choice questions:
	$(8 \times 1 = 8 \text{ Marks})$
(i) Name the bacteria which thrives extreme	environment conditions
(a) Archaebacteria	(b) Eubacteria
(c) Cyanobacteria	(d) Protista
25 Landa and a	and a superior
	gation method of sexual reproduction.
(a)Serytonema	(b)Spirogyra (d) Stigonema
(c) Spirulina	(d) Sugonema
(iii) Kingdom Plantae includes all except?	
(a) Eukaryotes	(b) None motile organism
(c) Multicellular	(d) Heterotrophs
(iv) An aplanospore is a nonmotile asexual	coors produced by which algae
(a) Green algae	(b) Red algae
(c) Brown algae	(d) Yellow algae
•	.,
(v) Leafy bryophytes are commonly known	
(a) Marchantia	(b) Thallus
(c) Moss	(d) Lycopodium
(vi) In which of the following group would tissue and lacks seed	you place a plant which produces spores, has vascular
(a) Algae	(b) Bryophyte
(c) Pteridophyte	(d) Gymnosperm
(vii) Pteridophytes are also called	
a) phanerogams	b) vascular cryptogams
c) amphibians of the plant kingdom	d) spermatophytes
(viii) Selaginella belongs to division	
(a) Lycopsida	(b) Pteropsida
(c) Psilopsida	(d) Sphenopsida
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Q2. Answer <u>any SEVEN</u> of the following in brief: (7X2 =	· 14 Marks)
(i) Identify the groups of Eubacteria based on a laboratory technique".	
(ii) Hetrocyst and its functional significance	
(iii) Which are the main criteria to classify algae	
(iv) What are the negative effects of algal blooms.	
(v) What are the functions of elator cells in sporophytes of bryophytes	
(vi)Distinguish between exosporic and endosporic development	
(vii) Explain the development of eusporangiate structure development	
(viii) Diatoms and their ecological significance	
(ix) Differentiate between Isogamy and Autogamy(x) With suitable illustration explain the structure of Plectostele.	
Q3. (a) Write notes on thallus structure in algae with suitable diagrams	(6 Marks)
(b) Write the characteristic features, reproduction and importance of cyanoba OR	cteria.(6 Mark
(b) Write notes on reproduction in algae with illustrations.	(6 Mark
Q4 (a) Give a detailed account of algal pigments and their significance in algal	
classification	(6 Marks)
(b) Write notes on the economic importance of algae. OR	(6 Marks)
(b) Explain what is eutrophication and reasons for its occurrence and control.	· (6 Marks)
Q5 (a) Discuss the salient features of various groups of Bryophytes.	(6 Marks)
(b) Write notes on evolution of sporophyte in bryophytes	(6 Marks
OR (b)Discuss briefly the ecological and economic importance of bryophytes.	
Q6 (a) Present the evidences to explain the heterospory and origin of seed habit	
in Pteridophytes. (b) With suitable illustrations discuss the origin of stele in Pteridophytes	(6 Marks) (6 Marks)
(b) with suitable mustrations discuss the origin of stelle in 1 terruophytes <u>OR</u>	(o many)
(b) Write notes on fossil Pteridophytes.	(6 Marks)

