(3 Hours) [Total	al Marks: 100]
N.B.: 1) All questions are compulsory.	
2) Figures to the right indicate full marks.	
3) Draw neat labelled diagrams wherever necessary.	
Q.1 Answer any TWO of the following:	20
A) What is sterilization? Write a detailed note on sterilization.	
B) What is pure culture? Discuss any one method of preparation of pure cultu	re.
C) Write a detailed note on colony characters exhibited by bacteria.	
D) Discuss different media studied by you.	
Q.2 Answer any TWO of the following:	20
A) Describe the thallus structure of Vaucheria. Add a note on its systematic P	osition
B) Explain formation of tetrasporophyte in <i>Polysiphonia</i> .	
C) Write a note on development of Cystocarp in Batrachospermum.	
D) Explain the general characters of Bacillariophyta.	
Q.3 Answer any TWO of the following:	20
A) Give the general characters of Basidiomycetes.	3
B) Describe the stages in the life cycle of <i>Puccinia</i> observed on the primary h	ost.
C) With a neat labelled diagram, explain V.S. of gill in <i>Agaricus</i> .	
D) Give a detailed account of the sporulating structures in Deuteromycetes.	
Q. 4Answer any TWO of the following:	20
A) Give a general account of control of Chemical methods of plant diseases.	
B) Describe a detail the symptoms, causal organism, and disease cycle of "Le	af curl".
C) Explain various Biological methods of plant diseases.	
D) Write a detail account of "Damping off" disease.	
Q. 5 Write short notes on (any FOUR)	20
a)Principle of Gram's staining techniques.	
b) Economic Importance of Rhodophyta.	
c) Single cell structure of <i>Pinnularia</i> .	
d) Conidia of Alternaria	
e) Aecidium of <i>Puccinia</i>	
f) Control measures of "White Rust".	

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