Paper / Subject Code: 24205 / Botany: Plant Diversity III

N.B.		8
	2. Draw neat labelled diagrams wherever necessary.	26.5
	3. All questions carry equal marks.	500
Λ1	Attornet on two	20
Q.1	Attempt any two	20
a 1-	Give general characters of Bacteria and Mycoplasma.	300
b	Write a brief note on dry heat & moist heat sterilization.	T S
С	What is pure culture? Enlist their types and discuss any one method of preparation of pure culture.	
d	Enumerate and explain steps involved in commercial production of antibiotics (<i>Penicillin</i>).	
Q.2	Attempt any two	20
a	Describe the thallus structure of <i>Batrachospermum</i> . Add a note on its chantransia stage.	Y
b	Discuss the sexual reproduction of <i>Polysiphonia</i> .	
c	Give an account of auxospore formation in <i>Pinnularia</i> .	
d	Explain the general characters of Xanthophyta.	
Q.3	Attempt any two	20
a	Describe the different stages of the life cycle of Agaricus.	
b	Give a detail account on the classification of basidiomycetes upto orders.	
c	Describe the mycelia characteristics and reproduction in <i>Alternaria</i> .	
d	Describe the stages of life cycle of <i>Puccinia graminis</i> on Wheat plant.	
Q.4	Attempt any two	20
a	Give causal organism, symptoms, disease cycle and control measures of 'Tikka disease of groundnut'.	
b	Describe various physical methods of plant disease control.	
c	Write the main symptoms, nature of causal organism, disease cycle and control measures of 'Citrus canker'.	
d	Give causal organism, symptoms, disease cycle and control measures of 'White rust disease'.	
Q.5	Write short notes. (Attempt any four)	20
a	Principle of Gram's staining	
b	Economic Importance of Bacillariophyta.	
c	Systematic position of <i>Vaucheria</i>	
d_{\diamond}	Asexual reproduction in basidiomycetes.	
ė	Control measures of 'Damping off disease'	
S f	Pycnidium of Puccinia.	
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