## Paper / Subject Code: 24141 / Botany: Paper I - Plant Diversity - III . (Rev.)

Time: 2 ½			Marks: 75	
	N.B.	1. All question are compulsory		
		2. Draw neat labelled diagram wherever necessary.		
		3. All questions carry equal marks.		
Q.1	Attempt any t	wo of the following	15	
a	Give detailed account of development of cystocarp in Batrachospermum.			
b	Describe the thallus & explain formation of tetrasporophyta in <i>Polysiphonia</i> .			
c	Describe the modes of sexual reproduction in <i>Pinnularia</i> .			
d	Explain general characters of Chrysophyta.			
Q.2	Attempt any <b>two</b> of the following			
a	Give an account of the vegetative mycelial characteristics in basidiomycetes.			
b	Describe the development of the basidiocarp & basidium in Agaricus.			
c	Describe the stages of life cycle of <i>Puccinia</i> on the primary host.			
d	Describe mycelial characters & reproduction in <i>Alternaria</i> .		<b>y</b>	
Q.3	Attempt any <b>two</b> of the following		15	
a	Describe in de	etail diseases cycle of tikka diseases of groundnut.		
b	Explain causa groundnut.	l organism, symptoms and control measures of tikka diseases of	of	
c	Describe the s diseases.	symptoms, causal organism & diseases cycle of Damping off		
d	Explain diseas	ses cycle & control measures of loose smut of Jowar.		
Q.4	Attempt any t	wo of the following	15	
a C	Give general of	characters of Bacteria & Archebacteria.		
b	Explain the pr	rinciple & protocol for gram staining.		
c	Explain steps	involved in commercial production of alcohol.		
d	Write a detaile	ed note on colony characters exhibited by bacteria.		
Q.5	Attempt any t	hree of the following	15	
a	Systematic po	sition of Vaucheria.		
<b>b</b>	Give an economic importance of Bacillariophyta.			
e	Aecium of Pu	ecinia.		
d	Classification	of Agaricus.		
e	Control measu	ares of Damping off disease.		
f	Pour plate me	thod.		
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