B.Sc Part II 2020 (Under 1+1+1 Regulations) BOTANY HONOURS PAPER III

Time 2 hours		FM 50	
1.	Answer the following questions	1x5	
	a) Mention a land adaptive feature of <i>Rhynia</i> .	1	
	b) Name one pteridophyte used as pesticide.	1	
	c) Define quiescent centre.	1	
	d) What is rhizofiltration?	1	
	e) Name the paleobotanist who reconstructed Williamsonia sewardiana.	1	
2.	Answer any three questions	5x3	
	a) Describe the gametophyte of <i>Psilotum</i> with relevant illustration	5	
	b) State the evolutionary significance of <i>Archaeopteris</i> .	5	
	c) Write a short note on types of stomata in dicotyledonous plants	5	
	d) Briefly discuss the chemical nature of cell wall.	5	
3.	Answer any three questions	10x3	
a)	Describe the floristic composition of lower Gangetic plain with particular reference to		
	deltaic Sunderbans	10	
b)	What are mechanical tissues? Explain the principles governing the distribution	n of	
	mechanical tissues in different plant organs.	2+8	
c)	Comment on incipient heterospory found in <i>Equisetum</i> . Mention the stages in the		
	evolution of seed habit from heterosporous condition.	3+7	
d)	Compare male and female gametophyte of <i>Cycus</i> and <i>Gnetum</i> with suitable diagram. 5+5		