B.Sc Part I 2020

(Under 1+1+1 Regulations)

BOTANY HONOURS

Time 4 hours

PAPER I

FM 100

	1 10
1. Answer the following questions:	1x10
a) What is carrageenan?	
b) Name one potential algal genus used as a source of biodiesel.	
c) What is physiological anisogamy?	
d) What are mollicutes?	
e) Name an amylase producing bacteria.	
f) where are clamp connection formed?	
g) What are anamorphic fungi?	
h) What is 'Hartig net'?	
i) What is primary inoculum?	
j) Name an inducer of systematic acquired resistance.	
2. Answer any six questions:-	5x6
a) Describe the development of auxospores in Diatoms	
b) Describe, in brief, structure and functions of heterocyst.	
c) Describe the one step growth curve of Bacteriophage.	
d) Write down the structure and function of bacterial endospore.	
e) Briefly describe the process of sexual degeneration in fungi.	
f) Write down the specialized structures associated with lichen thallus.	
g) Write short notes on phytoalexins.	
h) Describe in brief disease triangle.	
3. Write down any six questions:-	6x10
5. Write down any six questions.	OAIO
a) Describe the sexual reproduction of nannandrous species of Oedogonium.	10
b) Describe the lifecycle of <i>Ectocarpus</i> with labeled diagram.	10
c) What is transduction? Describe the mechanism of generalized transduction	2+8
d) Write short notes on i) Bacterial plasmids and ii) biopesticides	5+5
e) Describe the cultivation process of <i>Pleurotus</i> sp.	10
f) Describe sexual reproduction in a heterothallic species of <i>Rhizopus</i> .	10
g) What is mycorrhiza? Describe different types of mycorrhiza.	2+8
h) Describe the symptoms, disease cycle and control measures of Late blight of potato.	3+3+4