Seat 1	No:	No of printed pages: 4 [E+G]
		SARDAR PATEL UNIVERSITY
((69 Exu	P. Sc. (Samoster III) Evamination (2021-22)
	60	B. Sc. (Semester III) Examination (2021-22)
	FX	02.00
		03:00pm to 05:00 pm
		US03CBOT21 BOTANY
		(Phycology, Mycology and Phytopathology)
		TOTAL MARKS: 70
Instr	uction	s: There is total four questions. * Answer all sub questions in continuation. *
Q:1		Multiple choice questions.
	(01)	Which one of the following is a unicellular alga?
	(01)	
	(00)	
	(02)	
		(a) Nostoc(b) Chara(c) Ectocarpus(d) Vaucheria

(a) Gracilaria(b) Nostoc(c) Vaucheria(d) Ectocarpus

(03) Agar-agar is obtained from this

(04) Holocarpic thallus is seen in this

Q:2

V. Naga

[10]

()	(a) Albugo(b) Synchytrium(c) Agaricus(d) Aspergillus	
(05)		
	(a) basidiospore(b) conidiospore(c) pyniospore(d) macroconidia	
(06)	Reserpine and recicimine are secondary metabolites derived from	
	(a) Roulfiaserpentine(b) Digitalis purpuria(c) Atropa beladona(d)Ephedra foliata	
(07)	Usnea is an example of	
	(a) Crustose lichen(b) Foliose lichen	
	(c) Fruticose lichen(d)Squmulose lichen	
(80)	Mycorrhiza association is found in	
	(a) Rhodophyta(b) Gymnosperm(c) Lichen(d)Ascomycota	
(09)	Colletotrichiumfalcatum is causal organism for which disease?	
	(a) white rust of crucifer(b) late blight of potato(c) Citrus canker(d) redrot of	
	sugarcane	
(10)	Citrus canker is caused by	
	(a) virus (b) bacteria (c) mycoplasma(d) fungi	1001
	Answer as stated.	[08]
(01)	Nucule is a reproductive structure found in Ectocarpus. (True or False?)	
(02)	Monospore is produced by Polysiphonia. (True or False?)	
(03)	The mushroom growing in a ring is known as	
(04)	The lichens that are growing on bark of trees, known astype of lichen.	
(05)	The mycorrhiza are the symbiotic associations between plant root and algae.	
	(True or False?)	
(06)	Bioreactor is used to obtain secondary metabolites in large quantities. (True or	
	False?)	
(07)	Leaf curl of papaya is caused by causal organism.	
(08)	Blitox 50 and Fytolan are growth hormone. (True or False?)	

See page 2- overleaf

Q:3	(01)	Write answer in one or two sentence only. (any ten) What are hormogonia? In which plant it is found?	[20]
	(02)	Explain the antherozoid structure of <i>Vaucheria</i> .	
	(03)	Write name of any two renowned phycologist of India?	4.
	(04)	What is primary and secondary sterigmeta? During which kind of reproduction, it is produced?	
	(05)	Write the name of different kind of conidia observed in Neurospora.	
	(06)	Sketch and labeled diagram of T. S. of Gills of Agaricus.	
	(07)	Write the name of fungi used in medicine.	
	(80)	Explain 'Isidia' type of asexual reproduction in Lichen.	
	(09)	What is Mycorrhiza?	
	(10)	Discuss the symptoms: Necrosis, Blight.	
	(11)	Write causal organism of Late blight of Potato and Citrus canker disease.	
	(12)	Write control mechanism for Red rot of Sugarcane.	
Q:4		Describe. (Any four)	[32]
	(01)	Explain the asexual reproduction in Ectocarpus.	
	(02)	Algae used as food and fodder-Discuss.	
	(03)	Sexual reproduction in <i>Albugo</i> .	
	(04)	Discuss the cultivation process of Mushroom.	
	(05)	Explain Ectomycorrhiza and Endomycorrhiza with suitable examples.	
	(06)	Discuss the sexual reproduction in Lichen.	
	(07)	What is the causal organism of plant disease 'White rust of crucifer'? Write the	
		symptoms and control measures.	
	(08)	TMV.	
		V. Nagat	