SEAT	NoNo	o. of Printed Pages: 2			
	SARDAR PATEL UNIVERSITY				
[25.]	S. Y. B.Sc. 3 <sup>rd</sup> SEMESTER EXAMINATIO	N(NC)			
9	1 <sup>st</sup> January, 2021, Friday				
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10.00 AM to 12.00 PM					
Phytodiversity and Plant Biotechnology (US03EBOT01)					
	•	Total Marks-70			
	t ( transh)	[10]			
Q.1 Multip	ple Choice Questions (one mark each)	2-5			
1. False branchi	ng is found in (1) Classtrial	hia .			
(a) Chara	(b)Scytonema (c) Ulothrix (d) Gloeotricl	ilia			
is always terminal in position in Gloeotrichia.					
(a) akinete	(b) heterocyst (c) vegetative cen (d) none	of these			
2 Clabula is the	e sex organ of				
(a) Chara	(b)Scytonema (c) Ulothrix (d) Gloeotric	nia			
4. Puccinia cat	ages of wheat.				
( ) 1	(b) rust (c) blight (d) none of the	he above			
5 Mycorrhiza is a symbiotic association of With roots of higher plants.					
(a) algae	(b) bacteria (c) fungi (d) None of	above			
6 Albugo cause	es white rust in the plant	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
(a)Mustard	(b) wheat (c) rice (d) none of t	hese			
7 The coursel o	organism of late blight of potato is				
(a) Puccinia	(b) Phytophthora (c) Albugo (d)Alternat	ria			
8.Chlorosis m	agns of leaves				
(a)vellowing	(b)spots (c) drying (d) none of	f these			
9.The steriliza	diam of thermolabile compounds is done by	·			
(a) autoclave	(b) bacterial filter (c) mercuric chioi	ride (d) none of these			
10. Bt cotton is an example ofresistant plants.					
(a) stress	(b) insect (c)salt	(d) water			

## Answer as true or false Q.2

[08]

- 1. False branching occurs in Scytonema.
- 2. Agar agar is not obtained from algae.
- 3. Aspergillus infects citrus fruits.
- 4. Puccinia infects mustard plant.
- 5. Phytophthora infects potato plant.
- 6. Tikka disease occurs in groundnut plant.
- 7. Autoclave is not used for sterilization.
- 8. Laminar air flow chamber is used in tissue culture.

Q3.Answer	the questions	in short(Att	empt any	ten)
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- 1. What is heterocyst?
- 2. Discuss thallus structure of Ulothrix.
- 3.Describe the filament of Gloeotrichia.
- 4. What is endotrophic mycorrhiza?
- 5. Write about teleutospore.
- 6.Explain the role of fungi in medicine.
- 7. What do you mean by blight?
- 8. Write the symptoms of Tikka disease.
- 9. Explain the symptom of late blight of potato.
- 10. What is totipotency?
- 11. What is use of laminar air flow?
- 12. What are genetically modified organisms?
- Q4.Long Answer Questions(Attempt any 4)

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- 1. Write a detailed note on uses of algae.
- 2. Explain about cell structure and sex organs of Chara.
- 3. Give a brief account on life cycle of Albugo.
- 4. Explain about the economic importance of Fungi.
- 5. Write in brief all about pathogen, symptoms and management of Rust of Wheat.
- 6. Write symptoms and management of While rust of Crucifers.
- 7. Explain the role of Biotechnology in forestry and medicine.
- 8. Write a detailed note on process of Tissue Culture.

