

SEAT No. \_\_\_\_\_

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SARDAR PATEL UNIVERSITY  
S.Y.B.Sc (III SEMESTER) EXAMINATION  
Saturday 2<sup>nd</sup> January, 2021  
US03CBOT21 (Phycology, Mycology and Phytopathology)

Time: 2.00 to 4.00pm

TOTAL MARKS :-70

**Q-1 Multiple choice questions**

(10)

- (1) Ectocarpus belongs to the family \_\_\_\_\_  
(a) Phaeophyceae (b) Chlorophyceae (c) Rhodophyceae (d) Cyanophyceae
- (2) Agar agar is obtained from \_\_\_\_\_ algae  
(a) Red algae (b) Brown algae (c) Green algae (d) None of these
- (3) Study of Algae is \_\_\_\_\_  
(a) Pathology (b) Cytology (c) Mycology (d) Phycology
- (4) Agaricus is the example of \_\_\_\_\_  
(a) Basidiomycetes (b) Phycomycetes (c) Ascomycetes (d) None of these
- (5) Late blight of potato is caused by \_\_\_\_\_  
(a) Claviceps (b) Albugo (c) Phytophthora (d) Agaricus
- (6) The cell wall of fungal hypha is composed of \_\_\_\_\_  
(a) Chitin (b) Pectin (c) Cellulose (d) Lignin
- (7) Cercospora personata causes the disease \_\_\_\_\_  
(a) Rust of wheat (b) Late blight of potato (c) Tikka disease of groundnut (d) None
- (8) Yellowing of leaves means \_\_\_\_\_  
(a) Chlorosis (b) Florosis (c) Tylosis (d) Necrosis
- (9) White rust of crucifers is caused by \_\_\_\_\_  
(a) Puccinia (b) Albugo (c) Phytophthora (d) Agaricus
- (10) Curling of the leaves are found in \_\_\_\_\_  
(a) Groundnut (b) Papaya (c) Tobacco (d) None of these



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[PTO]



**Q-2 Do as directed**

(08)

- (1) Polysiphonia is the example of \_\_\_\_\_ algae.
- (2) Nostoc is blue green algae. (True / False )
- (3) Early blight of potato disease is caused by Synchytrium. (True / False )
- (4) The sexual reproduction is not found in \_\_\_\_\_ fungi.
- (5) Lichen show symbiotic relationship between algae and fungi. (True / False )
- (6) \_\_\_\_\_ show relationship between fungi and roots of higher plants.
- (7) White rust of Crucifers is fungal disease. (True / False )
- (8) Angular leaf spot is common in \_\_\_\_\_ plant.

**Q-3 Answer the following question in short (ANY TEN)**

(20)

- (1) Classify: Ectocarpus and Vaucheria
- (2) Sketch and label Chlamydomonas
- (3) What is heterocyst?
- (4) Name the types of Lichen.
- (5) Sketch and label Aspergillus
- (6) Classify: Synchytrium and Phytophthora
- (7) What is Mycoherbicides?
- (8) What is Ectomycorrhiza?
- (9) Write full form of VAM.
- (10) What are the most common symptom of Little leaf brinjal.
- (11) Write the name of causal organism of following disease  
(a) Tikka disease of Groundnut (b) Citrus canker
- (12) Write the common symptoms of Stripe rust of wheat.

**Q-4 Answer the following question (ANY FOUR)**

(32)

- (1) Describe thallus structure and reproduction in Nostoc.
- (2) Explain asexual reproduction in Ectocarpus.
- (3) Describe asexual reproduction in Albugo.
- (4) Describe asexual reproduction in Phytophthora.
- (5) Describe the role of fungi in food industry.
- (6) Write about Mycorrhiza in detail.
- (7) Describe symptoms, causal organism and control measures of "White rust of Crucifers".
- (8) Explain differentiation between bacterial, viral and fungal disease using morphological symptoms.

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