

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

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SARDAR PATEL UNIVERSITY  
T.Y.B.Sc. BOTANY-US06CBOT-01  
(Mycology, Plant Pathology and Lichenology)

Date: 26/03/2018

Time: 10.00 a.m. – 1.00 p.m.

Day: Monday

Marks-70

Q-1 Multiple choice questions.

(10)

- (i) Heterothallism was discovered in the fungi belonging to the order \_\_\_\_.  
(a) Mucorales (b) Ustilaginales (c) Pezizales (d) Polyporales
- (ii) An ascocarp which is flask-shaped with an ostiole in the centre is \_\_\_\_.  
(a) apothecium (b) cleistothecium (c) perithecium (d) hypothecium
- (iii) Trisporic acid is a sex-hormone produced by \_\_\_\_.  
(a) *Penicillium notatum* (b) *Aspergillus nidulans*  
(c) *Allomyces arbusculus* (d) *Mucor* sp.
- (iv) Wart of potato is caused by \_\_\_\_.  
(a) *Synhytrium endobioticum* (b) *Taphrina deformans*  
(c) *Tilletia caries* (d) *Fusarium oxysporum*
- (v) Necrotic symptoms mean \_\_\_\_.  
(a) death of the cells (b) increase in the number of cells  
(c) loss of chlorophyll (d) decrease in the number of cells
- (vi) Disease which occurs all over the world and cause large scale destruction of crops is referred to as \_\_\_\_.  
(a) epidemic (b) endemic (c) sporadic (d) pandemic
- (vii) *Plasmodiophora brassicae* is the causal organism of \_\_\_\_.  
(a) club root of cruciferae (b) bunt of wheat (c) little leaf of brinjal (d) wilt of pigeon pea
- (viii) Stinking smut of wheat is known as \_\_\_\_.  
(a) Karnal bunt of wheat (b) flag smut of wheat (c) bunt of wheat (d) none of these
- (ix) Lichens are bioindicators of \_\_\_\_.  
(a) water pollution (b) air pollution (c) both (a) & (b) (d) none of these
- (x) Litmus dye are obtained from \_\_\_\_.  
(a) algae (b) fungi (c) lichen (d) bryophytes

(7)

(P.T.O.)

Q-2 Short answer questions (any ten).

(20)

- (i) Explain-facultative saprophytes.
- (ii) Define-mycorrhizae.
- (iii) What is homothallism?
- (iv) Define-pathogenicity.
- (v) Write the symptoms of wart of potato.
- (vi) Name the causal organisms of--Downy mildew of pea and grape.
- (vii) Write the symptoms of nigrospora disease of rice.
- (viii) Name the causal organism of-little leaf of brinjal and red rot of sugarcane.
- (ix) Name the causal organism of--tobacco mosaic disease and panama disease of banana.
- (x) Explain-lichens as food.
- (xi) What are 'rhizines'?
- (xii) Name the lichens according to their external morphology.

Q-3. (a) Write about-Spore dissemination in fungi.

(05)

(b) Differentiate: apothecium and peritheium.

(05)

OR

Q-3. Write an account on economic importance of fungi.

(10)

Q-4. Write symptoms, disease-cycle and control-measures of downy mildew of grapes.

(10)

OR

Q-4. Give the name of causal organism, symptoms, disease-cycle and control-measures of loose smut of wheat.

(10)

Q-5. Write the symptoms of: (a) club root of crucifers.

(05)

(b) red rot of sugarcane.

(05)

OR

Q-5. Describe the disease-cycle of: (a) little leaf of brinjal.

(05)

(b) smut of wheat.

(05)

Q-6. Describe:(a) The internal structure of foliose lichens.

(05)

(b) Types of lichens according to their external morphology.

(05)

OR

Q-6. (a) Explain: Ascolichen.

(05)

(b) Write a note on: Medicinal importance of lichen.

(05)

→X←

(2)