

[40]

SEAT No. _____

No. of Printed Pages : 2

8

SARDAR PATEL UNIVERSITY
B.Sc.6th-SEMESTER
BOTANY-US06CBOT01 : Mycology, Plant Pathology and Lichenology
25-03-2019 (Monday)
10.00 a.m. to 1.00 p.m.

Marks: 70

Q-1 Choose the most appropriate answer:

(10)

(i) The vegetative phase, consisting of a naked, multinucleate amoeboid mass of protoplasm is termed as _____.

- (a) Plasmodium (b) thallus (c) mycelium (d) ectotrophic

(ii) The protective covering of sterile hyphae around an ascocarp is known as _____.

- (a) peridium (b) periderm (c) epiderm (d) appendages

(iii) Sex-hormones are produced during _____ reproduction.

- (a) vegetative (b) sexual (c) asexual (d) none

(iv) Excessive enlargement of cells in response, to infection by a pathogen is called _____.

- (a) hypoplasia (b) hypertrophy (c) atrophy (d) hyperplasia

(v) The chemical used for killing fungal pathogens are known as _____.

- (a) pesticides (b) bactericides (c) fungicides (d) nematocides

(vi) Ergot fungi refer to group fungi of the genus _____.

- (a) Penicillium (b) Aspergillus (c) Fusarium (d) Claviceps

(vii) Little leaf of brinjal is a _____ disease.

- (a) algal (b) fungal (c) bacterial (d) mycoplasmal

(viii) Bunt of wheat is also known as _____ of wheat.

- (a) stinking smut (b) karnal bunt (c) flag smut (d) none

(ix) In lichens, sexual reproduction is carried out by _____.

- (a) fungal partner (b) algal partner (c) both(a)&(b) (d) none

(x) In India, lichens are common in _____.

- (a) Eastern Himalayas (b) Nilgiris Hills (c) South India (d) Western Himalayas

1

(P.T.O.)

Q-2 Write briefly on any ten.

(20)

- (i) How spores are disseminated in fungi?
- (ii) What is dikaryophase?
- (iii) Define: Heterothallism.
- (iv) What is downy mildew?
- (v) Write the main symptoms of brown spot of rice.
- (vi) Write the control measures of Peach leaf curl.
- (vii) Name the causal organism of: (a) Panama disease of banana. (b) Little leaf of brinjal
- (viii) Write the control measures of Club root of Crucifers.
- (ix) Write the symptoms of Red rot of Sugarcane.
- (x) Write about: Uses of lichen as medicine.
- (xi) Write : Cephalodia in lichen.
- (xii) Draw a labeled diagram of: v.s. of lichen apothecium.

Q-3 Describe different types of fructification in fungi.

(10)

OR

Q-3 Write notes on: (a) Fungi as medicine.

(05)

(b) Pigmentation in fungi.

(05)

Q-4 Define: Plant-Pathology. Describe various types of symptoms.

(10)

OR

Q-4 Write the name of causal organism, symptoms, disease-cycle and control measures of Downy mildew of peas.

(10)

Q-5 Describe the symptoms, life cycle and control measures for wilt of pigeon pea

(10)

OR

Q-5 Write briefly on: a) Red rot of sugarcane b) Panama disease

(10)

Q-6. Write a note on the distribution, habit and habitat of lichens

(10)

OR

Q-6. Give an account of reproduction in lichens. What are the economic importance of lichens?

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2