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SARDAR PATEL UNIVERSITY

B.SC. (3 SEMESTER) EXAMINATION

Thursday 28th NOVEMBER 2013

2:30 PM - 5.30 PM

US03CBOT 01 (LOWER CRYPTOGAMES AND PLANT PATHOLOGY)

Total Marks :70

Q.-1 Multiple choice Questions

(10)

1. Conceptacles as reproductive structures are present in
(a) Polysiphonia (b) Sargassum (c) Rivularia (d) Cladophora
2. The Urn-shaped structure in Polysiphonia is
(a) Pericarp (b) Archicarp (c) Cystocarp (d) Procarp
3. In Albugo Conidia are produce in
(a) Longitudinal manner (b) Irregular manner
(c) Acropital manner (d) Basipital manner
4. Mycorrhizae is a symbiotic association between fungus and
(a) Roots of Higher Plants (b) Algal Zone
(c) Stem of Gymnosperm (d) None of the above
5. Invertase enzymes is extracted from
(a) Yeast (b) Aspergillus (c) Penicillium (d) Mucor
6. Fusariumudam causes disease called
(a) Wilt of Arhar (b) Early Blight of Potato
(c) Tikka disease of ground nut (d) Red rot of sugercane
7. Conidia forms cushion like structure in colletotrichum is called
(a) Apothecium (b) Cleistothecium (c) Acervulus (d) Corenia
8. Peziza is a member of class
(a) Ascomycetes (b) Discomycetes
(c) Basidiomycetes (d) Euascomycetes
9. The rapid rotting of the stem of seedling at the ground level is
(a) Rot (b) Damping off (c) Pitting (d) Blighting
10. Causal organism of citrus Canker is
(a) Xanthomonas citri (b) Pucciniarecondita
(c) Albugo candida (d) None of the Above

(1)

Q.-2 Short answer questions (Attempt any ten) (20)

1. Give systematic position of Scytonema
2. Mention types of spores in Polysiphonia and when they produce.
3. Sketch and label Gloeotrichia thallus
4. Give a systematic classification of Pythium
5. What is diplantic stage of Saprolegnia?
6. Give any two applications of Ectomicorrhiza.
7. Sketch and label of Aspergillus hyphae with Conidiophore
8. Give classification of Alternaria
9. Write about the vegetative structure of Colletotrichum.
10. What is Strips symptoms?
11. Write the name of causal organism of following diseases
 - (a) Tikka disease of Groundnut
 - (b) Early blight of Potato
12. Write about Scabs symptoms.

- Q.-3 (a) Describe various methods of Branching in Scytonema (06)**
(b) Write a note on importance of algae in Medicine and in industries (04)

OR

- Q.-3 (a) Explain asexual reproduction in Vaucheria (06)**
(b) Explain sexual reproduction in Cladophora (04)

- Q.-4 (a) Explain Vegetative structure and asexual reproduction in Albugo (10)**

OR

- Q.-4 (a) Describe asexual reproduction in Saprolegnia (05)**
(b) Describe the role of fungi in industries and in agriculture (05)

- Q.-5 (a) Explain mycelium and reproduction in Peziza (06)**
(b) Describe reproduction in Aspergillus. (04)

OR

- Q.-5 (a) Describe the conidia formation in Fusarium and Colletotrichum (06)**
(b) Explain asexual reproduction of Alternaria. (04)

- Q.-6 Describe the symptoms causal organism, disease cycle and control Measures of "Late blight of potato". (10)**

OR

- Q.-6 (a) Describe the symptoms causal organism and control Measures of "white rust of crucifers". (06)**
(b) Write a note on necrotic symptoms (04)