

SEAT No. _____



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[7/A-9]

SARDAR PATEL UNIVERSITY

S. Y. B.Sc. IIIrd Sem. Subject : BOTANY Code : US03EBOT01
(Phytodiversity and Plant Biotechnology)

Date : 30/09/2022 Friday Time:12.30 to 2.30 Total Marks : 70

Q. 1 Multiple choice questions.

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1. Who is the "father of Indian phycology" ?
(a) Bhardwaj (b) Desikachary (c) Iyengar (d) Maheshvari
2. The basal heterocyst is found in.....
(a) Scytonema (b) Gleotrichia (c) Ulothrix (d) Rivularia
3. Which one of the following algae is known as stone worst ?
(a) Chara (b) Ulothrix (c) Chlorella (d) Scytonema
4. The body of fungus is called as.....
(a) Thallus (b) Mycelium (c) Sporangium (d) None of these
5. Mycorrhiza is a symbiotic relationship betweenand roots of higher plants.
(a) Algae (b) Fungi (c) Bacteria (d) Bryophyte
6. Which fungus is used in baking industries ?
(a) Aspergillus (b) Rhizopus (c) Yeast (d) Mucor
7. The term chlorosis meansof leaves.
(a) Whiting (b) Drooping (c) Drying (d) Yellowing
8. Tikka disease is commonly associated with.....
(a) Potato (b) Wheat (c) Ground nut (d) Maize
9. Culture medium is contains
(a) Toxins (b) Inhibitors (c) Nutrients (d) Enzymes
10. B.T. toxins are not toxic to.....
(a) Arthropoda (b) Mammals (c) Reptiles (d) Aves

Q. 2 (A) Fill in the blanks.

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1. is a Cyanophyceean algae.(Ulothrix/ Scytonema)
2. Rust of wheat disease is caused by (Puccinia/Albugo)
3. The disease symptoms gives burnt appearance is (Blight/Mildew)
4. Sodium dichromate is used for (Heating/Washing)

(B) True or false.

1. Basal heterocyst is found in Gleotrichia.
2. R.S. Singh is a well known Phycologist.
3. White rust of crucifers is caused by Albugo.
4. Callus is the mass of vascular bundles.

Q. 3 Answer in short. (Attempt any ten)

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1. Thallus structure of Scytonema.
2. Draw label diagram of globule of Chara.
3. Draw label diagram of Gleotrichia.
4. Write Classification of Albugo.
5. Write the contribution of B.V. Mundkar.
6. Differentiate : Uredospore and Telutospore.
7. What is leaf curl disease?
8. What is leaf necrosis?
9. Write any two symptoms of plant disease.
10. What is gene therapy?
11. What is meaning of Totipotency?
12. What is protoplast culture?

Q. 4 Long answer questions (Attempt any four).

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- (1) Explain : asexual reproduction in Ulothrix.
- (2) Describe : Economic importance of Algae.
- (3) Write short note on Mycorrhiza.
- (4) Describe : Economic importance of Fungi.
- (5) Describe : Pathology of Late blight of Potato.
- (6) Describe : Pathology of Rust of wheat.
- (7) Write the importance of Biotechnology in Agriculture and Medicine.
- (8) Describe : General technique of plant tissue culture.

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