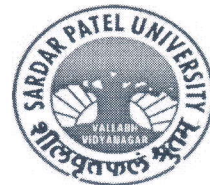




A Charutar Vidya Mandal's Institution
V.P. & R.P.T.P. SCIENCE COLLEGE (AUTONOMOUS)
(Grant-in-Aid)



Affiliated to Sardar Patel University

VALLABH VIDYANAGAR-388120

Bachelor of Science (Semester-4) Internal Examination – 2026

Subject Code: US04MABOT01 Subject: Phycology, Mycology and Phytopathology

Date: 07-03-2026, (Saturday) Time: 2:45pm to 4.15 pm (1.5 hrs) Total marks: 30

Q-1 Write the most appropriate answer from the following multiple-choice questions. 06

1. Coenocytic thallus is seen in

- | | |
|------------------|-----------------|
| A) Chlamydomonas | B) Vaucheria |
| C) Chara | D) Polysiphonia |

2. Triphasic life cycle occurs in

- | | |
|-----------------|--------------|
| A) Chara | B) Vaucheria |
| C) Polysiphonia | D) Ulothrix |

3. Reserve food material in fungi is

- | | |
|--------------|-------------|
| A) Starch | B) Glycogen |
| C) Cellulose | D) Sucrose |

4. The father of Plant Pathology is

- | | |
|------------------|------------------|
| A) Louis Pasteur | B) Robert Koch |
| C) Anton de Bary | D) D. J. C. Bose |

5. Overgrowth of plant tissue caused by pathogen is

- | | |
|----------------|-------------|
| A) Hypoplasia | B) Necrosis |
| C) Hypertrophy | D) Atrophy |

6. Stripe rust of wheat shows:

- | | |
|-------------------|------------------|
| A) Brown pustules | B) Black sori |
| C) Yellow stripes | D) White patches |

Q-2 Give a detailed account of The sexual reproduction of Vaucheria.

06

OR

Describe the Sexual reproduction of Chara.

Q-3 Describe the general characteristics of fungi.

06

OR

Discuss the Economic importance of fungi.

Q-4 Write notes on: Chlorosis and Damping-off

06

OR

Explain pathogenesis in plant diseases.

Q-5 Describe major plant diseases caused by “bacteria, viruses and fungi”.

06

OR

Q-5 Write an essay on wheat rusts and the contributions of K. C. Mehta.

ROOM NO:-----BLOCK NO:-----SIGN:-----MARKS:-----



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Date: 07-03-2026, (Saturday) Time: 2:45 pm to 4:15 pm (20 Min) Total marks: 15

QUIZ TEST

Fill in the blanks with the appropriate answer given in the bracket. (08)

1. Fucoxanthin is the characteristic pigment of _____. (Phaeophyta / Chlorophyta)
2. The book *Structure and Reproduction of Algae* was written by _____.
(F. E. Fritsch/ T. V. Desikachary)
3. The cell wall of algal cells is mainly composed of _____. (Cellulose/Protein)
4. A mass of fungal hyphae is known as _____. (Mycelium/ Spore)
5. White rust of crucifers is caused by _____. (Albugo/ Aspergillus)
6. The cell wall of true fungi is mainly composed of _____. (Chitin/ Protein)
7. The first visible stage of disease development is _____.
(Incubation period/ Penetration)
8. Reduction in size of plant parts due to disease is called _____.
(Hypoplasia/Hypertrophy)

Whether the following statements are true or false. Write your answers in the box. (07)

(Write T for True and F for False)

1. Xanthophyta store oil as reserve food. []
2. H. D. Kumar worked on algal physiology and ecology. []
3. Insects act as vectors for many plant pathogens. []
4. Hyphae of Oomycota are septate []
5. Fungi show an absorptive mode of nutrition. []
6. All plant diseases are infectious. []
7. Wilting is commonly associated with vascular diseases. []