

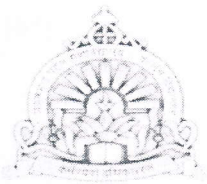
A Charutar Vidya Mandal's Institution

V.P. & R.P.T.P. SCIENCE COLLEGE

(AUTONOMOUS) (Grant-in-Aid)

Affiliated to Sardar Patel University

VALLABH VIDYANAGAR-388120



Bachelor of Science (Semester 2) External Examination - 2025
Subject Code:USO2MABOT01 Subject Name:Botany
Biodiversity(Microbes,Algae,Fungi and Archegoniate)

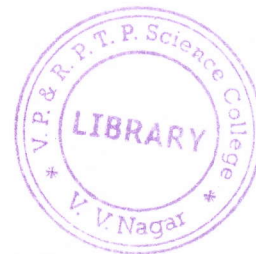
Date: 08-04-25 (Tuesday)

Time: 2:00 PM to 4:30 PM (2.5 HRS)

Total marks :50

Q-1 Write the most appropriate answer from the following multiple-choice questions. [10]

- (1) TMV was first isolated in crystalline form by _____.
(a) Miller (b) Stanley
(c) Mayer (d) Luria
- (2) Antony von Leewenhoek, the first to discover bacteria is from _____.
(a) U.K (b) Sweden
(c) France (d) Holland
- (3) When bacteria are rod shaped, they are called _____.
(a) Cocci (b) Bacilli
(c) Spirilla (d) Vibrio
- (4) Gloeocapsa is a _____ alga.
(a) Colonial (b) Filamentous
(c) Unicellular (d) All of these
- (5) The Cystocarp in Batrachospermum is _____.
(a) Haploid (b) Diploid
(c) Triploid (d) Polyploid
- (6) Mycology is the study of _____.
(a) Algae (b) Fungi
(c) Bryophytes (d) Pteridophytes
- (7) Which is known as 'Green molds' ?
(a) Neurospora (b) Mucor
(c) Penicillium (d) Yeast
- (8) Mycorrhiza is a symbiotic relationship between _____.
(a) Algae and bryophytes (b) Fungi and roots of higher plants
(c) Algae and roots of higher plants (d) Algae and fungi
- (9) Venter is the part of _____.
(a) Sporangium (b) Archegonium
(c) Antheridium (d) All of these
- (10) Name a bryophyte which shows Nostoc colonies in the thallus _____.
(a) Riccia (b) Sphagnum
(c) Anthoceros (d) Porella





Q-2 How virulent phages can multiply ? [10]

OR

Q-2 (a) Describe economic importance of Bacteria. [05]
(b) Explain conjugation in Bacteria. [05]

Q-3 Describe reproduction in Spirogyra . [10]

OR

Q-3 Describe Characteristic, reproduction and economic importance of Cyanobacteria [10]

Q-4 (a) Explain asexual reproduction in Rhizopus. [05]
(b) Describe internal structure of Lichen thallus. [05]

OR

Q-4 Describe different stages of Puccinia on wheat plant. [10]

Q-5 Explain external and internal structure of Riccia thallus with labelled diagram. [10]

OR

Q- 5 Describe internal structure of Cycas leaflet with labelled diagram. [10]