



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 -5) Internal Examination - 2025
US05MIBOT01: Plant-Ecology

Date: 24/09/2025, Wednesday
Time: 10.45 a.m.-11.45 a.m.

Total marks :20

Q-1 6-MCQ

(6Marks)

(1) A community is_____.

- | | |
|-------------------------------------|----------------------------------|
| a) a collection of plants & animals | b) organisms living in a habitat |
| c) autotrophs & heterotrophs | d) web of life |

(2) An example of an abiotic component is/are _____.

- | | | | |
|-----------|---------|------------|-------------|
| a) Plants | b) Soil | c) Animals | d) Bacteria |
|-----------|---------|------------|-------------|

(3) Which three layers form the soil profile?

- | | |
|------------------------|--|
| a) Air, water and soil | b) Minerals, organic matter and living organisms |
| c) Clay, silt and sand | d) The topsoil, subsoil and parent material |

(4) Which one of the following is an abiotic component of the ecosystem?

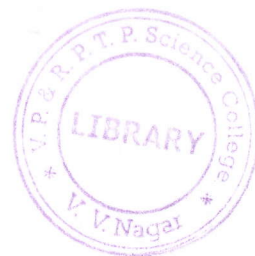
- | | | | |
|-------------|-----------|----------|----------|
| a) Bacteria | b) Plants | c) Humus | d) Fungi |
|-------------|-----------|----------|----------|

(5) The process through which ecosystems tend to change after a period of time is called

- | | |
|----------------------------|--------------------------|
| a) Ecological Succession | b) Biological Succession |
| c) Geographical Succession | d) None of the above |

(6) Which is an example for sedimentary biogeochemical cycle?

- | | | | |
|-----------------|-------------------|----------------|---------------------|
| a) Oxygen cycle | b) Nitrogen cycle | c) Water cycle | d) Phosphorus cycle |
|-----------------|-------------------|----------------|---------------------|



Q-2 Discuss the various ecological levels of organizations.

(7Marks)

OR

Q-2 Describe the relationship between living world (organisms) and their environment. (7Marks)

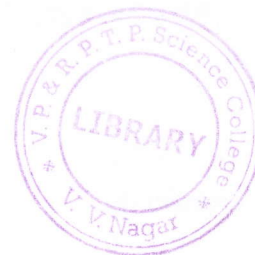
Q-3 What is ecological succession? Explain its types and process.

(7Marks)

OR

Q-3 Describe the various components of an Ecosystem.

(7Marks)



No of printed pages: 01

Supervisor sign

Seat No.:



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

BSC (Semester 5) Quiz - 2025
US05MIBOT01: Plant-Ecology



Date: 24/09/2025, Wednesday

Time: Maximum 10 minutes



Total marks :05

Q-1 Fill in the blanks with appropriate answer given in the bracket. OR Answer with either true or false.

- (i) In the biosphere energy is received from _____. (The Sun / The interior of the earth)
- (ii) _____ is known as the topsoil and is rich in organic matter. (A horizon/B horizon)
- (iii) The study of interactions between living and non-living organisms and environment is called _____. (Ecology / Phyto-geography)
- (iv) Food chain starts with _____. (Producer / Herbivores)
- (v) The relationship between nitrogen fixing bacteria and leguminous plants is _____. (Parasitism /Mutualism)
- an example.