



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 6) Internal Examination – 2026(NEP) US06MABOT01-PLANT ECOLOGY AND PHYTOGEOGRAPHY

Date: 06-03-2026 Friday

Time: 10:45 AM to 12:15 PM



Total marks :30

Q-1 Multiple Choice Question.

(06)

- (i) Definition of ecosystem is _____.
- The community of organisms together with the environment in which they live
 - The abiotic component of a habitat
 - The part of the earth and its atmosphere which inhibits living organisms
 - A community of organisms interacting with one another
- (ii) Edaphic factor refers to:
- Water
 - Soil
 - Relative humidity
 - Atmosphere
- (iii) Which of the following sources cannot be used for drinking purposes?
- River water
 - Seawater
 - Lakes
 - Ponds
- (iv) In an ecosystem, which of the following is unidirectional?
- Sulphur
 - Organic nutrient
 - carbon
 - Free energy
- (v) An Eco-System comprises of
- Living organisms
 - Non-living organisms
 - Both living and non-living organisms
 - Only plants
- (vi) Who proposed the theory of Continental Drift in 1912?
- Arthur Holmes
 - Harry Hess
 - Alfred Wegener
 - Charles Darwin

Q-2 Write about: Different levels of organization in plant-ecology. (6)

OR

Q-2 Describe briefly: Soil- profile. (6)

Q-3 Write a note on: Fire as an ecological factor. (6)

OR

Q-3 Describe: Hydrological cycle. (6)



Q-4 Write about: Ecological Pyramids (any two). (6)

OR

Q-4 Describe any two species interactions. (6)

Q-5 Write about: Shelford law of tolerance. (6)

OR

Q-5 Describe: Any two Phytogeographical division of India. (6)

Supervisor Sign: _____

Roll No: _____



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(A) Fill in the blanks.

(08)

- | | |
|---|-----------------------------------|
| (I) Soil erosion can be prevented by_____. | (Afforestation / Deforestation) |
| (II) _____ is the primary process in soil formation? | (Erosion/Weathering) |
| (III) The level of _____ is the water table. | (Rainwater/Groundwater) |
| (IV) Opuntia is an example of_____. | (Hydrophyte/ Xerophyte) |
| (V) Lichen is an example of _____ type of interaction. | (Predation / Mutualism) |
| (VI) _____ succession occurs after a volcanic eruption. | (Primary / Secondary) |
| (VII) _____ proposed the Law of Tolerance. | (Charles Darwin/ Ernest Shelford) |
| (VIII) Maximum biodiversity can be seen in_____. | (Tropical rain forest/Savanaha) |

(B) TRUE OR FALSE.

(07)

- | | |
|--|-----|
| (I) The environment that provides the things the organism needs to live, grow and reproduce is called habitat. | [] |
| (II) Sun is an original Source of energy flow in any food chain. | [] |
| (III) The process by which water from the surface of the earth moves to the atmosphere
Is known as Evaporation. | [] |
| (IV) The pyramids of numbers in grassland ecosystem will be upright. | [] |
| (V) Parasitism is an interaction between two species in which both are harmed. | [] |
| (VI) Organisms with a wide tolerance of environmental factors exhibit wide distribution, high population. | [] |
| (VII) The treeless biomes include deserts, grassland and tundra. | [] |