

SEAT No. \_\_\_\_\_

[46]

**SARDAR PATEL UNIVERSITY**  
**B.Sc. 5<sup>th</sup> SEMESTER Examination**

**Subject: Ecology of plants****Subject code -US05CBOT04****Date :29/10/2018****Day: Monday****Time:10:00 to 1:00p.m.****Total Marks: 70****Note : \* All questions are to be attempted. \*Figures to the right indicate marks****Q.1. Choose the most appropriate answer. 10**

- 1) The percentage distribution of species among the various life forms of a flora is called.....
 

a) Ecotone	b) Biological clock
c) Community	d) Biological spectrum
- 2) The collective and continuous growth of plants in space is called.....
 

a) Flora	b) Species
c) Vegetation	d) Factor
- 3) The study of the ecology of an individual or a particular species of organism called....
 

a) Synecology	b) Population ecology
c) Autecology	d) Habitat ecology
- 4) Flowering in plants is affected by temperature through.....
 

a) Thermoperiodism	b) Precipitation
c) Photoperiodism	d) Humidity
- 5) The rest above the mesosphere up to the height of above 300km earth surface is....
 

a) Ionosphere	b) Troposphere
c) Atmosphere	d) Stratosphere
- 6) Atmospheric moisture in the form of invisible vapor is known as:
 

a) Humidity	b) Thermoperiodism
c) Precipitation	d) Photoperiodism
- 7) Major source of formation of soil is....
 

a) Snow covered mountain	b) Riverbeds
c) Rocks	d) Volcanoes
- 8) Soil loss is due to.....
 

a) Plants	b) Bacteria
c) Deforestation and overgrazing	d) All of these
- 9) The occurrence of relatively definite sequence of communities over a period of time in the same area is known as ...
 

a) Competition	b) Composition
c) Colonization	d) Ecological succession
- 10) In a barren there reach the seeds and propagules of the species. This is known as....
 

a) Migration	b) Ecesis
c) Dominance	d) Composition

**Q.2. Answer the following questions (Any ten). 20**

1. Explain: Applied ecology.
2. Define: Ecosystem.
3. What is role of producers in ecosystem?
4. What is difference between desiccation and chilling injury?
5. Explain Ecological indicators
6. Explain: Seed dormancy.
7. Why is water essential for life?
8. Why fertile soil has lots of humus?
9. Explain: Contour terracing mechanical method.
10. Explain: Stratification.
11. What is Ecotone?
12. Explain :Ecesis.

**Q.3 Explain the following terms.**

Ecological equivalents, Paleo-ecology ,Standing state, Adaptation, Ecades 10

**OR**

**Q.3 Explain the following terms.**

Pollution, polyclimax, Population ecology, Biomass, Succession. 10

**Q.4. Write short note on:**

1. The effects of light on plants 06
2. Liebig's law of Minimum 04

**OR**

**Q-4 What is biological clock? Explain ecological life cycle of a plant in detail. 10**

**Q.5. Explain in detail:**

1. Biological method of soil conservation. 06
2. Soil profile. 04

**OR**

**Q.5. What is natural resources? Give an account of Forest resources. 10**

**Q.6. Give an account of analytical characters of a plant community. 10**

**OR**

**Q.6. What is limnology? Explain fresh water ecology in detail. 10**

