

**S-56**

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# **MSCBOT-602**

## **Plant Ecology**

M.Sc. Botany (MSCBOT)-21

3rd Semester Examination, 2022 (Dec.)

**Time : 2 Hours]**

**Max. Marks : 70**

**Note :** This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

### **SECTION-A**

#### **(Long Answer Type Questions)**

**Note :** Section 'A' contains Five (05) long answer type questions of Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

1. What is population? Describe its different characteristics with suitable examples.

2. Define biogeochemical cycles. Describe the global nitrogen or phosphorous cycle in detail.
3. Define ecosystem and describe its types.
4. What is ecological succession? Describe the process of ecological succession in pond or on a bare rock.
5. Explain any two of the following in detail :
  - (a) Ozone layer and Ozone hole.
  - (b) Ecological Urbanization.
  - (c) Global warming and its effect.
  - (d) Acid rain and stone leprosy.

**SECTION-B**  
**(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. Define the following terms:
  - (a) Environment.
  - (b) Atmosphere.
  - (c) Ozonosphere.
  - (d) Ionosphere.

2. Explain causes of climate change.
  3. Write short notes on :
    - (a) Ecesis.
    - (b) Climax.
    - (c) Allogenic succession.
    - (d) Retrogressive succession.
  4. Define El Niño and La Niña. Why these two events occur?
  5. Discuss various theories of climax concept in succession.
  6. What is 'air pollution'? Give an account of various types of air pollutants.
  7. Write notes on :
    - (a) Natality and mortality.
    - (b) Survivorship curve.
    - (c) Age pyramids.
    - (d) Age structure.
  8. Write an essay on 'eutrophication of aquatic habitats'.
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