

M.Sc. BOTANY
FOURTH SEMESTER
PLANT ECOLOGY
MSB-402 D

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

Marks: 10

(Objective)

Choose the correct answer from the following:

1 × 10 = 10

1. Which is not indicator of climate change?
 - a. Floral indicator
 - b. Cryogenic indicator
 - c. Long term change
 - d. None of the above
2. Good ozone is found in the:
 - a. Stratosphere
 - b. Troposphere
 - c. Ionosphere
 - d. Mesosphere
3. Remote sensing records:
 - a. Radio wave
 - b. Frequency wave
 - c. Electromagnetic energy
 - d. Microwave
4. Which of the following is not the branch of geo-informatics?
 - a. Remote Sensing
 - b. Cartography
 - c. Centesis
 - d. Photogrammetry
5. Which of the following gasses is the most responsible for acid rain?
 - a. Carbon dioxide and carbon monoxide are two types of gasses
 - b. Carbon dioxide and sulfur dioxide
 - c. Nitrogen dioxide and sulfur dioxide
 - d. Nitrous oxide and sulfur dioxide
6. Which is an example of restricted area endemic?
 - a. Mangroove
 - b. Rhododendron
 - c. Orchid
 - d. Shirui lily
7. Which of the following is not the vegetation of alpine zone?
 - a. Shorea robusta and Amara trees
 - b. Cushion plants and perennial grass
 - c. Mosses and lichens
 - d. Sedges and oak
8. The area where a plant first evolved and from where it dispersed to new areas is known as:
 - a. Center of dispersal
 - b. Migratory
 - c. Centre of replacement
 - d. All of the above
9. Which of the following is/are natural contributor(s) to atmospheric sulfur dioxide?
 - a. Sprays from the sea
 - b. Eruption of a volcano
 - c. Vegetation deterioration
 - d. All of the above

10. Endemic species are:
- a. Rare species
 - c. Imported species

- b. Endangered species
- d. Species found in a particular area

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(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

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| 1. What is GIS? Discuss in details the application of GIS in environmental management. | 1+4=5 |
| 2. What is plant migration? Discuss in brief the barrier of plants distribution. | 2+8=10 |
| 3. Write short notes on the following:
a) Global warming
b) Acid rain | 5×2=10 |
| 4. What is phytogeographical regions of India? Discuss in detail the different phytogeographical region of India with Map. | 2+8=10 |
| 5. Write short notes on the following:
a) Principles and concept of remote sensing
b) Greenhouse gases | 5×2=10 |

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