

**M.Sc. BOTANY  
THIRD SEMESTER  
PLANT ECOLOGY  
MSB-304 D**

**SET  
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

**(Objective)**

Marks: 10

*Choose the correct answer from the following:*

*1×10=10*

1. Biodiversity of a geographical region represents:
  - a. The diversity in the organisms living in the region
  - b. Endangered species found in the region
  - c. Species endemic to the region
  - d. None of the above
2. In Red data book Amber colour indicate:
  - a. Confirmed to be endangered
  - b. Endangered but recover
  - c. Endangered
  - d. Vulnerable
3. Which is the example of soil erosion that causes due to rainfall?
  - a. Splash erosion
  - b. Logging erosion
  - c. Rilli Erosion
  - d. All of the above
4. The largest ecosystem of the Earth is:
  - a. Hydrosphere
  - b. Lithosphere
  - c. Biosphere
  - d. Atmosphere
5. Underground mining is also known as:
  - a. Surface mining
  - b. Inner mining
  - c. Middle layer mining
  - d. Deep mining
6. The second most abundant gas in the atmosphere is:
  - a. Oxygen
  - b. Nitrogen
  - c. Methane
  - d. Carbondioxide
7. Which of the following has a largest population on a food chain?
  - a. Primary consumers
  - b. Secondary consumers
  - c. Decomposer
  - d. Producers
8. Which of the following is not the example of lentic ecosystem?
  - a. Pond, lake and pool
  - b. River, spring and lake
  - c. Stream, wetland and reservoir
  - d. Stream, river and Estuaries
9. Red data book is the documentation established by:
  - a. ICBN
  - b. ICN
  - c. IUCN
  - d. All of the above

10. Temperature increases with increasing in height is the characteristic feature of:
- a. Stratosphere
  - b. Troposphere
  - c. Thermosphere
  - d. Mesosphere

-- --- --

**(Descriptive)**

Time : 1 hr. 15 mins.

Marks : 25

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

- |  |        |
|--|--------|
| 1. What is Red Data Book? Discuss in brief advantages and disadvantages of Red Data Book.            | 1+4= 5 |
| 2. Write short notes on:<br>a) IUCN threat categories<br>b) Species, genetic and ecosystem diversity | 5×2=10 |
| 3. What is Atmosphere? Discuss in details the atmosphere composition and atmospheric chemistry.      | 2+8=10 |
| 4. What is shifting cultivation? Discuss its ecological implication.                                 | 2+8=10 |
| 5. What is watershed management? Discuss in details the key steps in watershed management planning.  | 2+8=10 |

= = \*\*\* = =