2025/11

SET A

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

[USE OMR FOR OBJECTIVE PART]

Duration: 1.30 hrs. **Full Marks: 35**

Objective

Time: 15 min. **Marks: 10**

Choose the correct answer from the following: *1X10=10*

1. Red data book is the documentation established by
   a. ICBN b. ICN
   c. IUCN d. All of the above

2. Which of the following has a largest population on a food chain
   a. Primary consumers b. Secondary consumers
   c. Decomposer d. Producers

3. Which is the example of soil erosion that cause 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. The second most abundant gas in the atmosphere is
   a. Oxygen b. Nitrogen
   c. Methane d. Carbon dioxide

6. Underground mining is also known as
   a. Surface mining b. Inner mining
   c. Middle layer mining d. Deep mining

7. In Red data book Amber colour indicate
   a. Confirmed to be endangered b. Endangered but recover
   c. Endangered d. Vulnerable

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

9. 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

10. 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

-- --- --

(Descriptive)

Time : 1 hrs. 15 min. **Marks : 25**

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

1. What is Red Data Book? Discuss in brief the advantages and disadvantage of Red Data Book. **5**

2. **Write short note on** **5+5=10**
   (a). IUCN threat categories
   (b). Species, genetic and ecosystem diversity

3. Explain diversity and ecosystem function in detail **10**

4. What is shifting cultivation? Discuss its ecological implication. **2+8=10**

5. What is Atmosphere? Discuss in details the atmosphere composition and atmospheric chemistry. **2+8=10**

= = *** = =