

BM111

Enrollment No. _____



**NAVVRACHANA
UNIVERSITY**

a UGC recognized University

School: School of Science
Program/s: BMS
Year: 2nd Semester: 3rd
Examination: End Semester Examination
Examination year: December - 2022

Course Code: BM111 Course Name: **Ecology & Environment Biology**
Date: 07/12/2021 Total Marks: 40
Time: 11.30 am to 1.30 pm Total Pages: 03

Instructions:

- All the Questions are Compulsory
- Please read the questions carefully and answer accordingly
- Draw a neat and labeled diagram wherever necessary.

Q.1 Do as directed

(1x12=12)

1. Which of the following is the correct definition of 'Biodiversity'?
- a) The variety of plant and animal life in the world or in a particular habitat, a high level of which is usually considered to be important and desirable.
 - b) It encompasses the interaction of all living species. Climate, weather, and natural resources that affect human survival and economic activity.
 - c) Both A & B
 - d) None of the above

2. What is the main aim of Montreal Protocol?

- a) Protection of Ozone Layer
- b) Endangered Birds
- c) Extinct species
- d) Biodiversity conservation

3. Consider the following ecological factors:

- 1. Precipitation
- 2. Temperature
- 3. Sunlight
- 4. Wind

Which of the above determine the characteristics of various biomes?

- a) 1, 2 & 3 Only
- b) 1, 3 & 4 Only
- c) 2, 3 & 4 Only
- d) 1, 2, 3 & 4

4. Gas released during Bhopal tragedy was

- a) methyl isocyanate
- b) potassium isothiocyanate
- c) sodium isothiocyanate
- d) ethyl isothiocyanate

12. Define 'ecological footprint'.

(7*2=14)

Q.2 Answer in brief (Any 7)

1. What is the significance about Greta Thunberg's arguments on climate change?
2. If we completely remove the decomposers from an ecosystem, its functioning will be adversely affected. State true or false with justification.
3. How does species loss affect the extinction risk of the remaining species?
4. What is the importance of Bishnoi movement?
5. Why is the number of trophic levels in an ecosystem limited?
6. Availability of energy is less for entities at higher trophic levels. Why?
7. What makes oceans the least productive?
8. What is the main reason for the decline in vulture population?
9. What is Minnamata disease?

(2x3=6)

Q.3 Write short notes on (Any 2)

1. Desert Ecosystem
2. Environment issues due to smart city infrastructure
3. Principle of holocoenotic environment

(2x4=8)

Q.4 Answer in detail (Any 2):

1. Describe the impact of at least three natural calamities on the environment.
2. What are the causes for ozone layer depletion? Give the harmful effects of the mentioned problem. Are the anthropogenic activities responsible for this environmental issue?
3. Explain the structure of the Ecosystem with the flowchart

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