



# BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.A.(Eng)-Hons-2023/B.Sc.(ANCS)-Hons-2023/B.Sc.(MSJ)-Hons-2023/B.Com.(AFB)-Hons]-2023/B.Sc.(FND)-Hons-2023/B.A.(Eng)-Hons-2024/B.Com.(AFB)-Hons]-2024/B.Sc.(ANCS)-Hons-2024/B.Sc.(BT)-Hons-2024/B.Sc.(FND)-Hons-2024/B.Sc.(MSJ)-Hons-2024

## **Course Name – Environmental Studies**

Course Code - VAC00006

## ( Semester I )

Library  
Brainware University  
398, Ramkrishnapur Road, Barasat  
Kolkata, West Bengal-700125

**Full Marks : 60**

**Time : 2:30 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

## Group-A

**Group A**  
**(Multiple Choice Type Question)**

$$1 \times 15 = 15$$

1. Choose the correct alternative from the following :

- (i) Identify the Pyramid of energy is
  - a) Upright
  - b) Inverted
  - c) Horizontal
  - d) None of the this
- (ii) Name the coldest region of atmosphere
  - a) Mesosphere
  - b) Troposphere
  - c) Stratosphere
  - d) Ionosphere
- (iii) Identify the functions of Forest
  - a) Accessory function
  - b) Protective function
  - c) Productive function
  - d) All of this
- (iv) Ecosystems consists of
  - a) Only living organisms
  - b) Living organisms and physical factors
  - c) Only insects
  - d) Only physical factors
- (v) Ozone hole in Antarctica is mostly due to
  - a) Methane
  - b) CFC
  - c) CO<sub>2</sub>
  - d) Nitrogen
- (vi) A food web consists of
  - a) Interlocking food chains
  - b) Producers, consumers and decomposers
  - c) A portion of a food chain
  - d) A set of similar consumers
- (vii) World Environment Day is observed every year on
  - a) June 5
  - b) July 5
  - c) August 5
  - d) September 10
- (viii) Write the most potentially renewable energy resource from below

a) Wind  
 c) Tidal energy  
 (ix) Choose the name of instrument by which sound can measure in dB unit?  
 a) Sound level meter  
 c) Thermometer  
 (x) Choose the most appropriate option  
 Symbiotic bacteria is  
 a) Rhizobium  
 c) Both a and b  
 (xi) In symbiosis  
 a) Two species are mutually benefitted  
 c) No species are benefitted  
 (xii) One horned rhino is found in  
 a) Panna national park  
 c) Jim Corbett national park  
 (xiii) Select the toxins that biologically magnify or accumulate in organisms are:  
 a) Heavy metals and Carbon dioxide  
 c) Fat and CFC's  
 (xiv) Choose the appropriate target organ damaged by pulmonotoxicity  
 a) Liver  
 c) Lungs  
 (xv) Select the species of particulate matter which is known as RSPM  
 a)  $PM_{10}$   
 c)  $PM_1$

*Library*  
 Brainware University  
 398, Ramkrishnapur Road, Barasat  
 Kolkata, West Bengal-700125

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

3 x 5=15

2. Define food chain. Give examples (3)  
 3. What is acid rain? (3)  
 4. What are energy resources? What are the types of energy resources with examples? (3)  
 5. Define sustainable development. Give examples. (3)  
 6. Write a short note on eutrophication. (3)

**OR**

Noise pollution can be controlled at the source. Justify the statement (3)

**Group-C**  
(Long Answer Type Questions)

5 x 6=30

7. Describe the major components of environments. (5)  
 8. Write down the name of different diseases that originate from the following types: (5)  
 (i) Vector-borne diseases (ii) Water-borne diseases (iii) Food-borne diseases  
 9. Explain the effects of arsenic in water. (5)  
 10. Discuss the different layers of the atmosphere. (5)  
 11. Define biodiversity. Name the scientist who coined the term biodiversity. Explain the different types of biodiversity. (5)  
 12. Explain the effects of excessive ground water usage. (5)

**OR**

Explain international and interstate conflict over water. (5)