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**BRAINWARE UNIVERSITY**

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Term End Examination 2024-2025

Programme – BBA-Hons-2023/BBA(HM)-Hons-2023/BCA-Hons-2023/B.Sc.(AM)-Hons-2023/BBA(DM)-Hons-2023/B.Sc.(PSY)-Hons-2023/BBA-Hons-2024/BBA(DM)-Hons-2024/BBA(HM)-Hons-2024/BCA-Hons-2024/B.Sc.(AM)-Hons-2024/B.Sc.(PSY)-Hons-2024/BCA(MAWT)-Hons-2024/BBA(BA)-Hons-2024

Course Name – Environmental Studies

Course Code - VAC00006

(Semester II)

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

(Multiple Choice Type Question)

1 x 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) Grassland ecosystem is occupied by nearly..... of Earth surface
 - a) 21%
 - b) 50%
 - c) 70%
 - d) 80%
- (iii) Name the coldest region of atmosphere
 - a) Mesosphere
 - b) Troposphere
 - c) Stratosphere
 - d) Ionosphere
- (iv) Identify the functions of Forest
 - a) Accessory function
 - b) Protective function
 - c) Productive function
 - d) All of this
- (v) Ecosystems consists of
 - a) Only living organisms
 - b) Living organisms and physical factors
 - c) Only insects
 - d) Only physical factors
- (vi) Kyoto Protocol is related to
 - a) Ozone layer depletion
 - b) Greenhouse gases

- c) SPM
- (vii) Lapse rate refers to
- a) Population increases in area with increase of temperature
 - b) Temperature decreases with increase in elevation
 - c) Temperature increases with increase in elevation
 - d) Both temperature decreases and increases with increase in elevation
- (viii) Choose the correct one-
- To monitor the state level environmental issues and problems, Supreme court of India has established
- a) Green bench
 - b) Pollution Control Board
 - c) Department of Environment
 - d) Department of Biotechnology
- (ix) How many hot spots of biodiversity are present in India?
- a) Two
 - b) Three
 - c) Five
 - d) Four
- (x) Choose the most appropriate option
Symbiotic bacteria is
- a) Rhizobium
 - b) Anabena
 - c) Both a and b
 - d) None of these
- (xi) Phosphorus is the main product of
- a) Both ATP and ADP
 - b) ATP
 - c) ADP
 - d) APT
- (xii) Bhopal gas tragedy was caused by the leakage of
- a) Methyl isocyanate in 1985
 - b) 2-4 dichlorophenoxyacetic acid in 1984
 - c) Methyl isocyanate in 1984
 - d) Hydrogen cyanide in 1984
- (xiii) Select the name the microorganism who has the ability to convert nitrite to nitrate
- a) Nitrosomonas sp.
 - b) Nitrobacter sp.
 - c) Pseudomonas sp.
 - d) Bacillus sp.
- (xiv) Second trophic level organism is
- a) Plant
 - b) Tiger
 - c) Goat
 - d) Eagle
- (xv) Which one of the following is true for a wastewater sample?
- a) $BOD > COD$
 - b) $COD > BOD$
 - c) $BOD = COD$
 - d) $BOD = 1/COD$

Group-B

(Short Answer Type Questions)

3 x 5=15

- 2. State the composition of atmosphere. (3)
- 3. What are energy resources? What are the types of energy resources with examples? (3)
- 4. Identify the difference between food chain and food web. (3)
- 5. What is photochemical smog? (3)
- 6. Distinguish in-situ and ex-situ conservation of biodiversity (3)

OR

Explain mutualism, commensalism, and parasitism with examples. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Write down the name of different diseases that originate from the following types: (i) Vector-borne diseases (ii) Water-borne diseases (iii) Food-borne diseases (5)
8. Discuss about sustainable development. How many goals do sustainable have? Name at least five. (5)
9. Explain the importance of Ozone gas in atmospheric layer. (5)
10. What are the impacts of population growth on human health? (5)
11. Write a short note on Nitrogen cycle. (5)
12. Explain the effects of excessive ground water usage. (5)

OR

Explain international and interstate conflict over water. (5)

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