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Brainware University  
398, Ramkrishnapur Road, Barasat  
Vedanta, Kolkata - 700125

## BRAINWARE UNIVERSITY

### Term End Examination 2024-2025

Programme – B.Optomtry-2022/B.Physiotherapy-2022/B.Sc.(CCT)-2022/B.Sc.  
(MLT)-2022/B.Sc.(MRIT)-2022/B.Sc.(OTT)-2022/B.Sc.(PA)-2022/B.Optomtry-  
2023/B.Physiotherapy-2023/B.Sc.(MLT)-2023/B.Sc.(MRIT)-2023/B.Sc.  
(OTT)-2023/B.Sc.(PA)-2023/B.Sc.(CCT)-2023/B.Optomtry-2024/B.Physiotherapy-  
2024/B.Sc.(CCT)-2024/B.Sc.(MLT)-2024/B.Sc.(MRIT)-2024/B.Sc.(OTT)-2024/B.Sc.  
(PA)-2024

Course Name – Environmental Science

Course Code - EVS101

( Semester I )

Full Marks : 75

Time : 3:0 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 10=10

1. Choose the correct alternative from the following :

- (i) Choose the other name for infectious diseases.
  - a) Non-communicable diseases
  - b) Communicable diseases
  - c) Non-transmissible diseases
  - d) Heredity diseases
- (ii) Select the primary reason for environmental contamination due to biomedical waste.
  - a) Aesthetic issues
  - b) Inappropriate segregation and disposal
  - c) Usage of green technologies
  - d) Employment of waste management professionals
- (iii) Which of the following is not correct regarding biological hazard?
  - a) Laboratories that handle biological materials, such as bacteria or viruses, also pose a risk of infection or exposure
  - b) To mitigate this hazard, it's important to use appropriate PPE, such as gloves and masks, and to properly decontaminate lab areas.
  - c) Biological hazards are not concern in labs that handle biological materials, such as bacteria or viruses
  - d) All of these
- (iv) Which of the following is a leading cause of biodiversity loss due to changes in land use and fragmentation of natural habitats?
  - a) Pollution
  - b) Climate change
  - c) Deforestation
  - d) Invasive species
- (v) Infer the primary cause of global warming.

- a) Ozone layer depletion
- b) Greenhouse gas emissions
- c) Water pollution
- d) Soil erosion
- (vi) Choose the effect of global warming on the environment.
  - a) Melting polar ice caps
  - b) Soil restoration
  - c) Biodiversity increase
  - d) Water conservation
- (vii) Indicate the main component of hospital waste.
  - a) Infectious material
  - b) Organic waste
  - c) Construction waste
  - d) Electronic waste
- (viii) Relate noise pollution to health effects.
  - a) Hearing loss
  - b) Skin rashes
  - c) Hair loss
  - d) High cholesterol
- (ix) Choose the environmental component that can get contaminated due to the dumping of biomedical waste in landfills.
  - a) Air
  - b) Soil
  - c) Water
  - d) All of these
- (x) Choose the process of Autoclaves to sterilize instruments.
  - a) Chemical solutions
  - b) Ultraviolet light
  - c) Dry heat
  - d) Moist heat under pressure

#### Group-B

(Short Answer Type Questions)

3 x 5=15

- 2. Define the term nosocomial infection. (3)
- 3. Label and draw an upright ecological pyramid. (3)
- 4. Recommend the limiting factors for population growth. (3)
- 5. Define air pollution and its main causes. (3)
- 6. Explain Biomedical wastes. (3)

OR

Distinguish between soiled waste and solid waste in the context of biomedical waste. (3)

#### Group-C

(Long Answer Type Questions)

10 x 5=50

- 7. Write about the colour coding in biomedical waste management. (10)
- 8. Summarize the factors essential for maintaining a good hospital environment. (10)
- 9. Discuss the journey of a discarded syringe from a hospital room to its final disposal. (10)
- 10. Write down the cause and effect of noise pollution. (10)
- 11. Discuss the 7 steps of hand washing. (10)

OR

Differentiate between incineration ash and chemical waste in biomedical waste management. (10)

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