



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

## BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – BBA(HM)-2020

Course Name – Biomedical Waste Management & Disaster Management

Course Code - BBAHMD601

( Semester VI )

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) Describe the procedure for disposing of sharps waste
    - a) Place in a puncture-proof container and incinerate
    - b) Wrap in paper and dispose of in the regular trash
    - c) Seal in a plastic bag and bury in a landfill
    - d) None of the these
  - (ii) Identify the category of Bio-medical waste that includes expired or unused medicines.
    - a) Infectious waste
    - b) Sharps waste
    - c) Chemical waste
    - d) Pharmaceutical waste
  - (iii) Identify the critical element in maintaining infection control during a disaster in a hospital.
    - a) Proper disposal of hazardous materials
    - b) Providing adequate medical supplies
    - c) Coordinating with local emergency services
    - d) Ensuring proper ventilation in patient areas
  - (iv) Identify the regulatory requirements for storing biomedical waste.
    - a) Waste must be stored in designated containers
    - b) Containers must be labelled with the type of waste and hazard level
    - c) Waste must be stored in a secure location
    - d) All of the these
  - (v) Identify the critical element in ensuring patient safety during a disaster in a hospital.
    - a) Adequate medical supplies
    - b) Availability of backup generators
    - c) Timely communication with external agencies
    - d) Proper patient identification and tracking
  - (vi) Explain the importance of training healthcare workers on biomedical waste management.
    - a) It helps in reducing the risk of infection and contamination
    - b) It ensures compliance with regulatory requirements
    - c) It helps in improving waste management practices
    - d) All of the these

- (vii) Describe the process of training healthcare workers on biomedical waste management
- a) It involves providing information on the types of waste and their proper segregation and disposal
  - b) It requires demonstrating proper handling and safety protocols
  - c) It is an ongoing process that requires regular updates and refreshers
  - d) All of the these
- (viii) Explain the importance of segregating biomedical waste
- a) To reduce the risk of infection
  - b) To ensure proper disposal
  - c) To comply with legal regulations
  - d) All of the these
- (ix) Describe the color-coding system used for biomedical waste management
- a) Red for hazardous waste, yellow for infectious waste, blue for non-infectious waste
  - b) Yellow for hazardous waste, blue for infectious waste, red for non-infectious waste
  - c) Blue for hazardous waste, red for infectious waste, yellow for non-infectious waste
  - d) Red for hazardous waste, blue for infectious waste, yellow for non-infectious waste
- (x) Identify the correct category of biomedical waste for discarded glassware
- a) Category 1
  - b) Category 2
  - c) Category 3
  - d) Category 4
- (xi) Describe the role of communication in disaster management.
- a) Communication is not important in disaster management.
  - b) Communication is only necessary during the response phase of disaster management.
  - c) Communication is essential throughout all phases of disaster management.
  - d) Communication is only necessary during the recovery phase of disaster management.
- (xii) Identify the correct method of treatment for biomedical waste:
- a) Incineration
  - b) Recycling
  - c) Composting
  - d) None of the these
- (xiii) Explain the requirements for labeling biomedical waste containers
- a) It must include the biohazard symbol
  - b) It must include the type of waste and hazard level
  - c) It must be visible and easy to read
  - d) All of the these
- (xiv) Describe the appropriate actions to take in case of a fire in a hospital.
- a) Activate the fire alarm and call emergency services
  - b) Evacuate patients and staff to a safe area
  - c) Close all doors to contain the fire
  - d) All of the these
- (xv) Describe the process of autoclaving in the management of biomedical waste
- a) It involves shredding and compacting waste
  - b) It uses high-pressure steam to sterilize waste
  - c) It involves the use of chemicals to disinfect waste
  - d) It is a method of incineration

### Group-B

(Short Answer Type Questions)

3 x 5=15

2. Describe the measures taken to ensure the safety of waste disposal workers. (3)
3. Define the meaning of biomedical waste management. (3)
4. Explain the importance of regular training and drills for hospital staff in relation to disaster preparedness (3)
5. Distinguish the different categories of hospital waste. (3)
6. Describe the methods of treatment and final disposal of different types of biomedical waste. (3)

OR

Explain the risks involved in landfilling and incineration of biomedical waste. (3)

Library  
Brainware University  
398, Ramkrishnaour Road, Bhubaneswar

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

5 x 6=30

7. choose three key steps that should be taken to minimize the risk of fire hazards in a hospital setting and discuss how a fire manual can help to facilitate these steps. (5)
8. Choose the most effective communication strategies for implementing a hospital disaster plan. (5)
9. Evaluate how can healthcare facilities ensure that they are implementing best practices to minimize risks to human health and the environment? (5)
10. Analyze the importance of staff training while the timing of handling bio medical waste ? (5)
11. Predict potential challenges that may arise during a disaster response in a hospital (5)
12. Classify the techniques for the proper segregation of biomedical waste (5)

**OR**

Explain the requirements for biomedical waste management training. (5)

\*\*\*\*\*