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## MID TERMBACK EXAMINATION APRIL 2023

## Sub: Biomedical Waste Management

Course: BCA II Sem.

Course Code: GCA201

Time: 3 Hrs

MM: 100

Note: Each question carry 2 marks.

- 1. Which of the following is likely a characteristic of Hazardous waste?
  - (a) Ignitability
  - (b) Reactivity
  - (c) Corrosivity
  - (d) All of the above
- 2. Which of the following organism degrade the organic matter thereby, transfer the matter to the environment?
  - a) Methanogens
  - b) Manganese
  - c) Carbon dioxide
  - d) Methane
- 3. The Environment Protection Act, 1986 passed in march 1986, it came into force on:
  - a) 1.April 1986
  - b) 1 July 1986
  - c) 19 November 1986
  - d) 1 January 1987
- 4. Which of the following is not a waste treatment method for biomedical wastes?
  - a) Incineration
  - b) Chemical disinfecting
  - c) Autoclaving
  - d) Sieving
- 5. Why is recycled paper banned for use in food containers?
  - (a) Because it creates a lot of spaces
  - (b) Because it creates contamination
  - (c) Because paper can be used only one time
  - (d) Because paper is very thick and can't cover the food containers
- 6. Which of the following waste is not categorized as Hazardous waste?

	a) (	Garbage
	b) I	industrial waste
	c) I	Hospital waste
	-	Laboratory waste
7.	As p	per sec. 2 (a) of Environment Protection Act 1986, Environment refers to:
	a)	Water, air and land.
	b)	The inter-relationship which exists among and between water, air, land and human beings.
	c)	Other living creatures, plants and microorganisms.
	d)	All of the above
8.	The Arti	Government of India enacted the Environment Protection Act 1986 under cle of the constitution of India.
	a)	253
	b)	249
	c)	301
		251
9.		vironment Protection Act 1986 contains sections divided into pters.
	a)	28 and 4
	b)	26 and 4
	c)	20 and 2
	,	30 and 3
10		nich of the following should not be mixed with other wastes to avoid ntamination?
	a)	Tarry residue
	b)	Oily sludge
	c)	Animal waste
	,,	Vegetable oil
1		hich coloured bag is used for the collection and storage of Human Anatomical ste?
	a)	Red
	b)	Yellow
	c)	White
	d)	Blue

12. The organic material of the solid waste will decompose	
(a) By the flow of water	
(b) By the soil particles	
(c) By the action of microorganisms	
(d) By oxidation	
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13. Which of the following method is used for the treatment of human anatomical waste?	
a) Incineration	
b) Autoclaving	
c) Chemical disinfectant	
d) None of the above	
14. According to plastic waste management act 2016, the thickness of plastic bags should be increases up to:	
a) 50 microns	
b) 0.5 micron	
c) 70 microns	
d) 25 microns	
15. Which of the following method is used for the treatment of sharp waste or metals according to biomedical waste management?	
a) Incineration	
b) Autoclaving	
c) Chemical disinfectant	
d) All of the above	
16. Autoclaves are used in the medical applications to perform	
a) Vulcanization	
b) Heating	
c) Sterilization	
d) Cleaning	
17. What is the common temperature used in autoclaves?	
a) 109 degrees	
b) 121 degrees	
c) 135 degrees	
d) 142 degrees	
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18. Sterilization with the help of Autoclave is based on which principle?
a) Dry heat sterilization
b) Radiation
c) Moist heat sterilization
d) None of the above
19. Which of the following best describes the process of 'Disinfection'?
a) The elimination of all forms of microorganisms and bacterial spores.
b) The elimination of all forms of bacterial spores.
c) The reduction or elimination of microorganisms and bacterial spores.
d) The reduction or elimination of many microorganisms and some bacterial spores.
20. Name the sterilization agent that is most frequently used in hospitals and clinical laboratories for the heat-labile liquid substances or antibiotics.
a) Dry heat
b) Radiation
c) Filtration .
d) Formaldehyde
21. Identify the temperature and time period commonly used for the hot air oven while sterilizing glassware in the laboratory
a) 180 degrees Celcius for 30 mins
b) 63 degrees Celcius for 30 mins
c) 121 degrees Celcius for 15 mins
d) 1000 degrees for 30 mins
22. Nonionizing radiation and ionizing radiation are sterilization methods mainly used in hospitals. Ultraviolet radiation is an example of nonionizing radiation, name the ionizing radiation?
a) Infrared
b) X-rays and gamma rays
c) Halogens
d) Ethylene oxide
23. Which of the following sterilizing agent is found to have bacterial sporicidal activity?
a) Hot air oven
b) Ethyl alcohol
c) Autoclave
d) All of the above
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25. W	hich of the following is NOT an example of physical sterilization?
a)	Disinfectant
b)	Autoclave
c)	Microwave
d)	Radiation sterilization
<b>26.</b> St	erilization through microwave is based on which principle?
a)	Moist heat
b)	Chemical
c)	Dry heat
d)	None of the above
<b>27.</b> W	hen did Hazardous waste management act enacted in India?
a)	1988
b)	1989
c)	1990
d)	1991
<b>28.</b> W	hat is the goal of Hazardous Waste Management unit?
a)	Protect health and environment by risks of hazardous waste
b)	Chemical analysis
c)	Import
d)	Export
<b>29.</b> W	hen can we classify waste as hazardous?
a)	When waste won't cause any mortality
b)	When waste increase mortality
c)	When waste decrease mortality
d)	When waste decompose itself without any aid.
<b>30.</b> W	hat is a toxic waste?
a)	Substances those are not poisonous

24. Which of the following can be recycled many times?

(a) Wood(b) Plastic

(c) Aluminium

(d) Organic materials

- b) Substances those are poisonous only when it taken in large quantity. c) Substances those are poisonous even when it taken in small quantity. d) Substances which work as an antidote for toxic materials. 31. What is an ignitable waste? a) Waste which can burn relatively at low temperature.
- - b) Waste which can burn relatively at high temperature.
  - c) Waste which doesn't burn.
  - d) Waste which doesn't produce temperature.
- 32. Where we can get radioactive wastes?
  - a) Small scale industries.
  - b) Houses
  - c) Nuclear power plants
  - d) Vehicular wastes.
- 33. Which of the following is a hazardous substance?
  - a) Gold
  - b) Lead
  - c) Copper
  - d) Iron
- 34. What are objectives of Environmental protection act?
  - a). To provide protection and improvement of environment.
  - b) To prevent environmental pollution.
  - c) To appoint environment officers to check environmental pollution.
  - d) All of the above.
- 35. Which of the following chapter of environmental protection act 1986 include the prevention, control and abatement of environmental pollution?
  - a) Chapter 1
  - b) Chapter 2
  - c) Chapter 3
  - d) Chapter 4
- 36. Chapter 1 of environmental protection act 1986, includes:
  - a) Short title
  - b) Definations
  - c) Commencement

d) A11 of the at
d) All of the above
37. An engineered facility for the disposal of municipal solid waste is called:
<ul><li>a) Septic tank</li><li>b) Sanitary landfills</li></ul>
c) Dug wells
d) Tandom landfills
<ul><li>38. In solid waste management, waste utilization is achieved by</li><li>a) Recover, reclamation and reproduce</li></ul>
b) Reuse, reclamation and recycling
c) Recover, recycling and reproduce
d) Reuse, reproduce and recycling.
<b>39.</b> The best method of disposal of refuse to ensure complete destruction of pathogenic bacteria is by
a) Land disposal
b) Incineration
c) Pulverisation
d) Mechanical compositing
40. Problem of solid waste disposal can be reduced through
a) Recycling
b) Lesser pollution
c) More timber
d) Population control
41. Which of the following is a method of chemical sterilization?
a) Autoclave
b) Microwave
c) Radiation
d) Using ethyl alcohol
42. How long does it take for a plastic bag to decompose?
a) Up to 5 days
b) Up to 5 years
c) Up to 1000 years
d) Never
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4.		ecause?	
	a)	It requires a lot of space	
	b)	It requires modern technologies	
	c)	It causes several environmental issues	
	d)	It is very costly	
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<b>4</b> 4	1. W	hat is the process of turning waste into new materials?	
	a)	Recycling	
	b)	Landfilling	
	c)	Composting	
	d)	Incinerating	
45. A process in which garbage is burnedat very high temperatures is:			
	a)	Landfills	
	b)	Incineration	
	c)	Leachate	
	d)	Refuse dumped fuel	
46	. W	hy can't we make a compost out of plastic?	
	a)	Because plastic is biodegradable	
	b)	Because it bad for the soil.	
	c)	Because it catches fire.	
	d)	Because plastic is non-biodegradable.	
47	. W	hat kind of wastes are filled in compost pit?	
	a)	Biodegradable	
	b)	Non- biodegradable	
	c)	Both of these	
	d)	None of these	
48.	. Lai	rge open areas used for solid waste disposal.	
	a)	Incinerators	
	b)	Playgrounds	
	c)	Open dumps.	
		Sewerage	
49.	The	e biomedical waste management and handling rules came into force on	

- a) 1998
- b) 1996
- c) 1999
- d) 1995
- **50.** Which method is best suited for the disposal of category 3 (Microbiology and biotechnological) biomedical waste from the following list?
  - 1. Incineration
  - 2. Disinfection
  - 3. Microwaving
  - 4. Landfill
  - 5. Autoclaving
  - (a) 1 and 4 only.
  - (b) 1,3 and 5 only.
  - (c) 1,2 and 5 only.
  - (d) 1,3 and 4 only.