GCA-201(A)

H Roll No.

## GCA-201(A)

## B. C. A. (SECOND SEMESTER) END SEMESTER EXAMINATION, July/Aug., 2022

BIOMEDICAL WASTE MANAGEMENT

Time . Three Hours

Maximum Marks: 100

- Note: (i) Attempt all questions.
  - · (ii) Each question carries 2 marks.
- 1. Which of the following can be used to produce marketable compost from dry solid wastes?
  - (a) Aerobic compositing
  - (b) Vermi-compositing
  - (c) Anaerobic compositing
  - (d) Anaerobic digestion

- 2. Which of the following waste is not categorized as Hazardous waste?
  - (a) Garbage
  - (b) Industrial waste
  - (c) Hospital waste
  - (d) Laboratory waste
- 3. 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
- 4. As 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

(b)

- 8. Biomedical waste includes the waste from:
- (a) Hospital waste
- (b) Laboratories waste
- (c) Waste from research facilities
- evode antito IIA (b)
- with other wastes to avoid contamination? 9. Which of the following should not be mixed
- (a) Tarry residue
- ogbule vlio (d)
- (c) Animal waste
- (d) Vegetable oil
- 10. Which of the following is not a waste treatment

method for biomedical wastes?

- (a) Incineration
- (b) Chemical disinfecting
- (c) Autoclaving
- gnivois (b)
- 11. Which coloured bag is used for the collection

and storage of Human Anatomical waste?

- (a) Red
- wollay (d)
- (c) White
- (d) Blue

in march 1986, it came into force on: 5. The Environment Protection Act, 1986 passed CCV-701(V) (8)

- 8861 linqA I (s)
- 9861 Vlut 1 (d)
- (c) 19 November 1986
- 7861 Viennat I (b)
- Article ..... of the constitution of India. Environment Protection Act 1986 under 6. The Government of India enacted
- (a) 253
- 677 (d)

- (c) 301
- 1SZ (p)
- chapters. contains ..... sections divided into ..... 9861 10V protection 7. Environment
- to pue 87 (v)
- (b) 26 and 4
- (c) 20 and 2
- € pue 0€ (b)

- 12. Red coloured bags or containers are used for the collection of waste.
  - (a) Glassware
  - (b) Expired medicines
  - (c) Contaminated waste
  - (d) None of the above
- 13. Which of the following method is used for the treatment of human anatomical waste?
  - (a) Incineration
  - (b) Autoclaving
  - 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

GCA-201(A) 15. Which of the following method is used for the treatment of sharp waste or metals according to biomedical waste management?

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- (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
  - 121 degrees
  - (c) 135 degrees
  - (d) 142 degrees

sterilizing glassware in the laboratory commonly used for the hot air oven while 21. Identify the temperature and time period

- (a) 180 degrees Celcius for 30 mins
- (b) 63 degrees Celcius for 30 mins
- (c) 121 degrees Celeius for 15 mins
- (d) 1000 degrees for 30 mins
- nonionizing radiation, name the ionizing hospitals. Ultraviolet radiation is an example of are sterilization methods nainly used in 22. Nonionizing radiation and ionizing radiation
- (a) Infrared fadiation?
- (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
- (p) Ethyl alcohol
- (c) Autoclave
- evode and of the above

- GCV-701(V) (4)
- based on which principle? 18. Sterilization with the help of Autoclave is
- (a) Dry heat sterilization
- (b) Radiation
- (c) Moist heat sterilization
- (d) None of the above
- brocess of 'Disinfection' ? 19. Which of the following best describes the
- microorganisms and bacterial spores. to all forms of all forms of
- spores. (b) The climination of all forms of bacterial
- microorganisms and bacterial spores. climination reduction or eq. (c)
- microorganisms and some bacterial spores. (d) The reduction or elimination of many
- substances or antibiotics. heat-labile liquid ayı 101 Isboratories frequently used in hospitals and clinical 90. Name the sterilization agent that is most
- (a) Dry heat
- (b) Kadiation
- (c) Filtration
- (a) Formaldehyde

24. Which of the following methods has been found safe and effective in the elimination of COVID-19?

- (a) Use of 60-70 % Ethyl alcohol
- (b) Use of 25% of NaCl
- (c) Use of 25% Ethyl alcohol
- (d) All of the above

25. Which of the following is NOT an example of physical sterilization?

- (a) Disinfectant
- (b) Autoclave
- (c) Microwave
- (d) Radiation sterilization

26. Sterilization through microwave is based on which principle?

- (a) Moist heat
- (b) Chemical
- (c) Dry heat
- (d) None of the above

27. When did Hazardous waste management act enacted in India?

(a) 1988

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- (b) 1989
- (c) 1990
- (d) 1991
- 28. What 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

29. When 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.

30. What is a toxic waste?

- (a) Substances those are not poisonous
- (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?

temperature.

- (a) Waste which can burn relatively at low
- (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.
- (a) Houses
- (c) Nuclear power plants
- (d) Vehicular wastes,
- 33. Which of the following is a hazardous
- substance?

- (a) Gold
- (p) read
- (c) Copper
- uon (b)

protection act? 34. What are objectives of Environmental

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(a) To provide protection and improvement of

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- (b) To prevent environmental pollution. environment.
- (c) To appoint environment officers to check.
- (d) All of the above. cuvironmental pollution.
- prevention, control and abatement environmental protection act 1986 include the 32. Which of the following chapter
- environmental pollution?
- (a) Chapter I
- (b) Chapter 2
- (c) Chapter 3
- (d) Chapter 4
- 36. Chapter 1 of environmental protection act
- : sapnjaui '9861
- (a) Short title
- (b) Definations
- (c) Commencement

- 37. An engineered facility for the disposal of municipal solid waste is called:
  - (a) Septic tank
  - (b) Sanitary landfills
  - (c) Dug wells
  - (d) Tandom landfills
- 38. In solid waste management, waste utilization is achieved by :
  - (a) Recover, reclamation and reproduce
  - (b) Reuse, reclamation and recycling
  - (c) Recover, recycling and reproduce
  - (d) Reuse, reproduce and recycling.
- 39. 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

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- 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
- 43. What are the 3 R's?
  - (a) Reduce, Reuse and Recycle
  - (b) Reduce, Refuse, Reuse
  - (c) Reduce, Refuse, Recycle
  - (d) Reduce, Reuse, Rotate

P. T. O.

50. ..... is the separation of biodegradable \$661 (p) 6661 (0) 9661 (9) 8661 (a) handling rules came into force on ..... 49. The biomedical waste management (d) Sewerage (c) Oben qumbs: (b) Playgrounds (a) Incinerators 48. Large open areas used for solid waste disposal. CCA-201(A) (91)

waste from non-biodegradable waste for proper

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disposal and recycling.

(a) Separation

(b) Segregation

(c) Removal

(d) Compositing

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P. T. O.

(b) Because it bad for the soil.

47. What kind of wastes are filled in compost pit?

(d) Because plastic is non-biodegradable.

(a) Because plastic is biodegradable

(c) Because it catches fire.

46. Why can't we make a compost out of plastic?

(d) Refuse dumped fuel

(d) None of these (c) Both of these

(a) Biodegradable

(b) Non-biodegradable

(c) justification

(b) Incincration

(a) Landfills

high temperatures is: 45. A process in which garbage is burnedat very

(d) Incinerating

(c) Composting

(b) Landfilling

(a) Recycling

? eleriatem

,44. What is the process of turning waste into new

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