

Program: BE Civil Engineering
Curriculum Scheme: Revised 2012
Examination: BE Semester VII

Course Code: CE-C705 and Course Name: Solid Waste Management

Time: 1 hour

Max. Marks: 50

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Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	Which one of the following parameters is not included in the routine characterization of solid waste for its physical composition
Option A:	Moisture content
Option B:	Energy value
Option C:	Particle size analysis
Option D:	Density
Q2.	The term Refuse generally does not include
Option A:	Putrescible solid waste
Option B:	Excreta
Option C:	Non putrescible solid waste
Option D:	Ashes
Q3.	What is the order of waste management hierarchy, from most to least favoured
Option A:	Prevention-Recycle-Reuse-Disposal
Option B:	Prevention-Reuse-Disposal-Recycle
Option C:	Prevention-Disposal-Reuse-Recycle
Option D:	Prevention-Reuse-Recycle-Disposal
Q4.	Atomic Weight of Hydrogen is
Option A:	32
Option B:	1
Option C:	12
Option D:	14
Q5.	Ferrous materials are recovered by
Option A:	Pyrolysis
Option B:	Kjheldal method
Option C:	Gasification
Option D:	Magnetic pully
Q6.	Tilt frame container is a type of
Option A:	Hauled container system

Option B:	stationary container system
Option C:	Alley collection system
Option D:	Curbside collection
Q7.	The house owner is responsible for placing refuse containers at the curb. This type of collection is called
Option A:	Curbside collection
Option B:	Hauled container collection
Option C:	Backyard collection
Option D:	Alley collection
Q8.	Which of the following is not includes in 3R's?
Option A:	Reuse
Option B:	Recycle
Option C:	Refuse
Option D:	Reduce
Q9.	Level site is a kind of
Option A:	Curbside collection method
Option B:	Hauled container system
Option C:	Transfer station
Option D:	stationary container
Q10.	Which method is not helpful in planning vehicle routes?
Option A:	Heuristic
Option B:	Deterministic
Option C:	Probabilistic
Option D:	Deterministic-Heuristic
Q11.	Self loading or manually loaded vehicles are used in
Option A:	stationary container system
Option B:	Hauled container system
Option C:	Curbside collection
Option D:	Alley collection system
Q12.	The term RDF in solid waste management stands for
Option A:	Refuse dry fuel
Option B:	Refuse derived fuel
Option C:	Reduced dry fuel
Option D:	Reduced dirty fuel
Q13.	With reference to composting process, complete the following equation: Organic matter + _____ + aerobic bacteria--> _____ + NH3 + H2O + other end products + energy
Option A:	O2, CO2
Option B:	O2, CO

Option C:	CO ₂ , O ₂
Option D:	CO, O ₂
Q14.	What is the optimum temperature range in composting process for most of pathogens to die?
Option A:	40 °C to 45 °C
Option B:	35 °C to 40 °C
Option C:	25 °C to 30 °C
Option D:	55 °C to 60 °C
Q15.	In C/N ratio to increase Nitrogen content, what is added to waste ?
Option A:	Saw dust
Option B:	Straw
Option C:	Slaughter house waste, blood
Option D:	Paper
Q16.	Which of the following is a biological aerobic treatment of solid waste?
Option A:	Composting
Option B:	Landfilling
Option C:	Incineration
Option D:	Pyrolysis
Q17.	The anaerobic method of composting practised in India is
Option A:	Banglore Method
Option B:	Manglore Method
Option C:	Indore Method
Option D:	Delhi Method
Q18.	Which of the following method is not adopted for safe disposal biomedical waste
Option A:	Incineration
Option B:	Landfilling
Option C:	Autolaving
Option D:	Hydroclaving
Q19.	Thermophilic stage of the composting process is a
Option A:	moderate-temperature phase
Option B:	high-temperature phase
Option C:	Cooling phase
Option D:	Curing phase
Q20.	Sanitary landfills may cause troubles during
Option A:	Peak Winter
Option B:	Peak summer
Option C:	Peak Mansoons
Option D:	Dry season

Q21.	Which one of the following industries produced Sulfur dioxide and flu ash as pollutants?
Option A:	Thermal industries
Option B:	Textile industries
Option C:	Coal industries
Option D:	Cottage industries
Q22.	Who is responsible for safe disposal of the generated hazardous waste?
Option A:	Receiver
Option B:	Generator
Option C:	Waste facility
Option D:	TSDf
Q23.	Wastes that are "harmful or fatal when ingested or absorbed"
Option A:	Corrosive
Option B:	Acidic
Option C:	Alkaline
Option D:	Toxic
Q24.	Containers of biomedical waste are marked with symbol of
Option A:	Leak Proof
Option B:	Special Boxes
Option C:	Biohazard
Option D:	Fire Triangle
Q25.	An e-waste, refrigerator, falls under which category/classification
Option A:	Large household appliances
Option B:	Toys, leisure and sports equipment
Option C:	Lightning equipment
Option D:	Consumer electronics

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	B
Q2.	B
Q3.	D
Q4	B
Q5	D
Q6	A
Q7	A
Q8.	C
Q9.	C
Q10.	C
Q11.	A
Q12.	B
Q13.	A
Q14.	D
Q15.	C

Q16.	A
Q17.	A
Q18.	B
Q19.	B
Q20.	C
Q21.	A
Q22.	B
Q23.	D
Q24.	C
Q25.	A