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Q : 1) Municipal solid waste includes

A : Residential, institutional and commercial waste

B : Institutional, industrial and commercial waste

C : Construction and demolition, biomedical, industrial waste

D : E-waste, biomedical and residential waste

Q : 2) Correct order of solid waste management is

A : Transportation, collection, treatment, disposal

B : Collection, treatment, transportation, disposal

C : Collection, transportation treatment, disposal

D : Transportation, treatment, collection, disposal

Q : 3) Waste produced from kitchens are

A : Biodegradable

B : Non-biodegradable

C : Inert

D : Combustible

Q : 4) Biogas is majorly composed of

A : Carbon dioxide and hydrogen

B : Methane and carbon dioxide

C : Hydrogen and nitrogen

D : Methane and hydrogen

Q : 5) What to do with plastic wastes?

A : Composting

B : Recycling

C : Disposal in dump yard

D : Underground storage

Q : 6) Technologies used for energy production

A : Bio methanation and incineration

B : Incineration and compositing

C : Composting and bio methanation

D : Composting and pyrolysis

Q : 7) _____ consist of bulky wastes such as those from construction sites.

A : Refuse

B : Garbage

C : Debris

D : Rubbish

Q : 8) Match the following

i. Generated from field, orchars, vineyards	a) Residential waste
ii. Generated at household level	b) Commercial waste
iii. Restaurants, hotels, markets,	c) Institutional waste
iv. Potentially harmful substances from household as well as industries	d) Agricultural waste
v. Educational, administrative and public buildings	e) Hazardous waste

A : i-b, ii-a, iii-c, iv-d, v-e

B : i-d, ii-a, iii-b, iv-e, v-c

C : i-a, ii-e, iii-c, iv-b, v-d

D : i-e, ii-b, iii-c, iv-d, v-a

Q : 9) _____ method is used for sampling wastes to obtain a fairly homogeneous sample for subsequent analysis.

A : Proximate

B : Ultimate

C : Quartering

D : Field capacity

Q : 10) During proximate analysis, 50g of sample is oven for 24 hours at 104°C. After cooling down, a residual weight along with the crucible was observed to be 21.246g. The residue was again subjected to 550°C for 2 hours. The crucible was again weighted and obtained a value of 21.021g. Weight of the crucible is 19.996g. The ash content (%) and moisture content (%) of the sample respectively are

A : 96.5 and 1.5

B : 97.5 and 2.05

C : 98 and 2.1

D : 98.5 and 1.1

Q : 11) _____ of the waste is carried out to determine the proportion of carbon, hydrogen, oxygen, nitrogen and sulphur.

A : Proximate analysis

B : Ultimate analysis

C : Biodegradable fraction

D : Calorific value

Q : 12) _____ defined as the amount of moisture that can be retained in a waste sample subject to the downward pull of gravity.

A : Moisture solids

B : Volatile solids

C : Field capacity

D : Total solids

Q : 13) 1000 kg of waste fed to the incinerator typically assisted with 5300 g of air produces X amount of ash, which is disposed off in the landfill. Exhaust gas consists of 520 kg O_2, 4080 kg of N_2, 879 kg CO_2 and 565 kg of H_2O. A trace amount of other gas was observed to be 4 kg. Find the amount of solid residue produced per kg of the waste treated. Also, identify the waste quantification method used.

A : 256 kg, load count analysis

B : 252 kg, weight volume analysis

C : 252 kg, mass balance analysis

D : 256 kg, mass balance analysis

Q : 14) _____ estimates the quantity and composition of solid wastes by recording the estimated volume and general composition of each load of waste delivered.

A : Weight volume analysis

B : Load count analysis

C : Mass balance analysis

D : None of these

Q : 15) Source of the solid waste which is not biodegradable

A : Residential waste

B : Commercial waste

C : Construction and demolition waste

D : Agriculture waste

Q : 16) Factor affecting solid waste generation rate.

A : Moisture content

B : Source reduction

C : Landfilling

D : Source segregation

Q : 17) Distance between the containers / dustbin should not be more than _____m and that of container / dustbin and house should not exceed _____m.

A : 200, 250

B : 500, 150

C : 250, 500

D : 500, 250

Q : 18) Match the following

a. High rise dwelling	i. Reduce the value of individual components for recycling
b. Types of containers	ii. Haul container
c. Effect of storage on waste	iii. Collection frequency
	iv. Microbial decomposition
	v. Chute system

A :a-iii, b-v, ii, c-I, iv

B : a-v, ii, b-iii, c-i, iv

C : a-v, b-iii, I, c-ii, iv

D : a-v, b-iii, ii, c-I, iv

Q : 19) _____ is biological processes in which microorganisms break down biodegradable material in the absence of oxygen at the same time producing biogas.

A : Anaerobic digestion

B : Composting

C : Vermicomposting

D : All of these

Q : 20) Conversion of organic waste into compost by earthworm can be classified as:

A : In-vessel composting

B : Vermicomposting

C : Pyrolysis

D : Activated sludge process

Q : 21) Match the following

a. Primary collection services	i. Collection system
b. Secondary collection	ii. Requires homeowner cooperation to carry back and forth the containers
c. Curb services	iii. Collection services
d. Setout services	iv. Requires scheduled service for homeowner cooperation
	v. At source of generation

A : a-iii, b-i, c-ii, iv, d-iv

B : a-i, b-iii, c-ii, d-iv, ii

C : a-iii, v, b-I, c-iv, d-ii, iv

D : a-iii, b-i, v, c-ii, iv, d-ii, iv

Q : 22) Identify the wrong statement

A : Curb collection service requires homeowner cooperation for scheduled service.

B : setout setback service is much more time consuming compared to others.

C : Backyard system works best when a suitable driveway is available.

D : None of these

Q : 23) Collection system recommended at the areas with high generation rate is:

A : Curb service

B : Stationary container system

C : Haul container system

D : Setout-setback service

Q : 24) According to CPHEEO, packaging materials used by e-commerce companies shall be disposed of in dustbins with colour code of:

A : Yellow

B : Blue

C : Green

D : Black

Q : 25) Recommended processing of wastes from hospitals is:

A : Anerobic digestion

B : Composting

C : Incineration

D : Vermicomposting

Result : SSC JE 2019

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Abhishek Gaur


Swaraj Chauhan


Pankaj Gupta


Vaibhav Sharma


Randhir Das


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Saurabh


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Tarique Akhter


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