National Testing Agency

Question Paper Name:	Solid and Hazardous Waste Management 10th November 2019 Shift 2
Subject Name:	Solid and Hazardous Waste Management
Creation Date:	2019-11-10 18:07:02
Duration:	180
Total Marks:	100
Display Marks:	Yes

Solid and Hazardous Waste Management

Group Number :	1
Group Id :	709597330
Group Maximum Duration :	0
Group Minimum Duration :	120
Revisit allowed for view? :	No
Revisit allowed for edit? :	No
Break time:	0
Group Marks:	100

Solid and Hazardous Waste Management-1

Section Id :	709597425
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	20
Number of Questions to be attempted:	20
Section Marks:	20
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	709597529
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 70959730028 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is not biodegradable in nature?

a. Cow dung

b. Vegetable peels

c. Garden waste

d. Polythene bags

Question Number : 2 Question Id : 70959730029 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a traditional method of solid waste disposal?

a. Open dumping

b. Incineration

c. Ocean dumping

d. Open burning

Question Number : 3 Question Id : 70959730030 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Waste containing cytostatic drugs is called as _____ waste.

a. Pathological waste

b. Chemical Waste

c. Pharmaceutical waste

d. Genotoxic wastes

Question Number : 4 Question Id : 70959730031 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following does not come under proximate analysis

a. Fixed carbon

b. Carbon

c. volatile matter

d. moisture

Question Number : 5 Question Id : 70959730032 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Bailing equipment is operated at _____ pressure

a. More than 7 lb/in^2

b. Less than 7 lb/in^2

c. More than 200 lb/in^2

d. 100 to 200 lb/in^2

Question Number : 6 Question Id : 70959730033 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The constituent that is found in highest percentage in e-waste is……..

a. Iron and steel

b. Plastic

c. Glass

d. None of the above

Question Number : 7 Question Id : 70959730034 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

_____ states of India generate least per capita waste

a. Northern

b. Southern

c. Eastern

d. Western

Question Number : 8 Question Id : 70959730035 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following is not a characteristics of hazardous waste?

a. Corrosivity

b. Toxicity

c. Ignitability

d. Biodegradability

Question Number : 9 Question Id : 70959730036 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The percentage of U-235 isotope in Natural Uranium is?

a. 99.3%

b. 7.2%

c. 0.72%

d. 0.0006%

Question Number : 10 Question Id : 70959730037 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

For the collection of Anatomical waste _____ colour plastic bags are used.

a. Yellow

b. Red

c. White

d. Black

Question Number : 11 Question Id : 70959730038 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

_____ Percentage of Plastic is consumed in packaging in India.

a. 12

b. 21

c. 33

d. 42

Question Number : 12 Question Id : 70959730039 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following method is used for the composting of night soil.?

a. NADEP Method
b. Bangalore method
c. Indore method
d. None of the above

Question Number : 13 Question Id : 70959730040 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Bio-Medical Waste Management Rules, 2016 have _____schedules

a. 04
b. 05
c. 18
d. 25

Question Number : 14 Question Id : 70959730041 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Geotextiles are composed of

a. polypropylene
b. Cotton
c. Calcium carbonate
d. Bentonite

Question Number : 15 Question Id : 70959730042 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If plastics are burnt in incinerator at low temperature then which of the following gases are produced?

a. Phosphine
b. Dioxins and furans
c. Radon
d. Acetylene gas

Question Number : 16 Question Id : 70959730043 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Indian coal generate _____ fly ash after combustion.

a. 5 – 10 %
b. 15 – 25%
c. 30 – 45%
d. 70 – 80%

Question Number : 17 Question Id : 70959730044 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following is not a recommended technological option for solid waste management in rural areas?

a. Vermicomposting

b. Composting of solid waste

c. Biogassification of solid waste

d. Incineration of solid waste

Question Number : 18 Question Id : 70959730045 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Stocking, distribution or sale of carry bags made of virgin or recycled plastic was prohibited under which rules?

a. Recycled Plastics Manufacture and Usage Rules, 2003

b. Plastic Waste (Management and Handling) Rules 2011

c. Plastic Waste Management Rules 2016

d. Plastic Manufacture, Sale and Usage Rules 1999,

Question Number : 19 Question Id : 70959730046 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

. Under Swachh Bharat Mission (Gramin), assistance for Solid and Liquid Waste Management (SLWM) projects for a Gram Panchayat having less than 150 households is _____.

a. INR 7.0 Lakhs

b. INR 12.0 Lakhs

c. INR 15.0 Lakhs

d. INR 30.0 Lakhs

Question Number : 20 Question Id : 70959730047 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Basel convention has _____ articles.

a. 13

b. 21

c. 29

d. 37

Solid and Hazardous Waste Management-2

Section Id :	709597426
Section Number :	2
Section type :	Offline
Mandatory or Optional:	Mandatory
Number of Questions:	10
Number of Questions to be attempted:	10
Section Marks:	30

Display Number Panel: Yes
Group All Questions: No

Sub-Section Number: 1
Sub-Section Id: 709597530
Question Shuffling Allowed : No

Question Number : 21 Question Id : 70959730048 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 3

Define solid waste. Give its classification.

Question Number : 22 Question Id : 70959730049 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 3

Which factors influence solid waste generation?

Question Number : 23 Question Id : 70959730050 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 3

Give characteristics of waste containers used for solid waste collection.

Question Number : 24 Question Id : 70959730051 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 3

What do you understand by Waste hierarchy?

Question Number : 25 Question Id : 70959730052 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 3

Explain different types of recycling.

Question Number : 26 Question Id : 70959730053 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 3

Classify plastics on the basis on thermal properties.

Question Number : 27 Question Id : 70959730054 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 3

Differentiate composting and vermicomposting.

Question Number : 28 Question Id : 70959730055 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 3

What do you understand by landfill bioreactors?

Question Number : 29 Question Id : 70959730056 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 3

Give salient features of Plastic Waste Management Rules, 2016

Question Number : 30 Question Id : 70959730057 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 3

What are the objectives of Basel Convention? Give its main provisions.

Solid and Hazardous Waste Management-3

Section Id :	709597427
Section Number :	3
Section type :	Offline
Mandatory or Optional:	Mandatory
Number of Questions:	7
Number of Questions to be attempted:	5
Section Marks:	50
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	709597531
Question Shuffling Allowed :	No

Question Number : 31 Question Id : 70959730058 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 10

Explain various process used for Size and Volume reduction of solid waste.

Question Number : 32 Question Id : 70959730059 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 10

Explain different steps involved in Radioactive waste Management.

Question Number : 33 Question Id : 70959730060 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 10

Explain various methods used for Biomedical waste treatment.

Question Number : 34 Question Id : 70959730061 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 10

Write brief notes on the following

a) Uses of fly ash

b) Fly ash Management rules.

Question Number : 35 Question Id : 70959730062 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 10

Explain the process of composting in detail

Question Number : 36 Question Id : 70959730063 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 10

Give salient features of Solid Waste Management Rules, 2016.

Question Number : 37 Question Id : 70959730064 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 10

Explain the process of Mechanical Biological Treatment. What are its outputs? Give its merits and demerits.