

National Testing Agency

Question Paper Name :	Solid and hazardous Waste Management 29th Sep 2020 Shift 2
Subject Name :	Solid and Hazardous Waste Management
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Solid and hazardous Waste Management

Group Number :	1
Group Id :	899514145
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No

Solid and hazardous Waste Management-1

Section Id :	899514197
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	20
Number of Questions to be attempted :	20

Section Marks : 20
Mark As Answered Required? : Yes
Sub-Section Number : 1
Sub-Section Id : 899514238
Question Shuffling Allowed : Yes

**Question Number : 1 Question Id : 89951412384 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0**

Which of the following does not affect solid waste generation in an area?

1. Climate
2. Life style
3. Economic status of the population
4. Biodegradability of solid waste

Options :

- 89951448361. 1
- 89951448362. 2
- 89951448363. 3
- 89951448364. 4

**Question Number : 2 Question Id : 89951412385 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0**

The percentage of organic fraction in solid waste at global level is _____.

1. 13 %
2. 21 %
3. 46%
4. 66%

Options :

- 89951448365. 1
- 89951448366. 2
- 89951448367. 3
- 89951448368. 4

Question Number : 3 Question Id : 89951412386 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is not analyzed during Proximate analysis of solid waste?

1. Volatile matter
2. Sulphur content
3. Fixed carbon content
4. Volatile matter

Options :

89951448369. 1

89951448370. 2

89951448371. 3

89951448372. 4

Question Number : 4 Question Id : 89951412387 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Most preferred option in waste hierarchy is

1. Prevention
2. Reduction
3. Recovery
4. Disposal

Options :

89951448373. 1

89951448374. 2

89951448375. 3

89951448376. 4

Question Number : 5 Question Id : 89951412388 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Food and garden waste is collected in _____.

1. Black colour containers
2. Blue colour containers
3. Yellow colour containers
4. Green colour containers

Options :

- 89951448377. 1
- 89951448378. 2
- 89951448379. 3
- 89951448380. 4

Question Number : 6 Question Id : 89951412389 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is not a physical method of Hazardous waste treatment?

- 1. Ozonolysis
- 2. Sedimentation
- 3. Electrodialysis
- 4. Adsorption

Options :

- 89951448381. 1
- 89951448382. 2
- 89951448383. 3
- 89951448384. 4

Question Number : 7 Question Id : 89951412390 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Incineration process is done at a temperature of _____ °C

- 1. 60 - 100
- 2. 350 - 400
- 3. 850 - 1100
- 4. 1500 - 2000

Options :

- 89951448385. 1
- 89951448386. 2
- 89951448387. 3
- 89951448388. 4

Question Number : 8 Question Id : 89951412391 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Mutagenic and carcinogenic wastes are included under _____ category of biomedical wastes

1. Anatomical waste
2. Radioactive waste
3. Chemical waste
4. Genotoxic waste

Options :

- 89951448389. 1
- 89951448390. 2
- 89951448391. 3
- 89951448392. 4

Question Number : 9 Question Id : 89951412392 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Iron and steel contributes to _____ % of Waste Electrical and Electronic Equipment (WEEE)

1. 21
2. 48
3. 13
4. 7

Options :

- 89951448393. 1
- 89951448394. 2
- 89951448395. 3
- 89951448396. 4

Question Number : 10 Question Id : 89951412393 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following statement is not true about transfer stations?

1. Intermediate station located between waste collection and disposal site
2. Temporary waste storage site
3. Insects and odour free
4. Segregation and waste processing are done

Options :

- 89951448397. 1
- 89951448398. 2
- 89951448399. 3
- 89951448400. 4

Question Number : 11 Question Id : 89951412394 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Waste stabilization in landfill bioreactor occurs within _____ period of implementation

1. 1- 2
2. 5 - 10
3. 15 - 20
4. More than 25 years

Options :

- 89951448401. 1
- 89951448402. 2
- 89951448403. 3
- 89951448404. 4

Question Number : 12 Question Id : 89951412395 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Biogas is composed of _____ and _____

1. CO₂ and methane
2. Hydrogen and methane
3. CO and acetylene
4. CO₂ and oxygen

Options :

- 89951448405. 1
- 89951448406. 2
- 89951448407. 3
- 89951448408. 4

Question Number : 13 Question Id : 89951412396 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

_____ % of moisture is required for vermicomposting process

- 1. 20
- 2. 30
- 3. 60
- 4. 90

Options :

- 89951448409. 1
- 89951448410. 2
- 89951448411. 3
- 89951448412. 4

Question Number : 14 Question Id : 89951412397 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The average per capita waste generation for a population greater than 5 million is _____ g/capita/day

- 1. 200
- 2. 500
- 3. 1100
- 4. more than 2000

Options :

- 89951448413. 1
- 89951448414. 2
- 89951448415. 3
- 89951448416. 4

Question Number : 15 Question Id : 89951412398 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is not emitted by radioactive waste?

1. alpha particles
2. beta particles
3. gamma radiations
4. delta particles

Options :

- 89951448417. 1
- 89951448418. 2
- 89951448419. 3
- 89951448420. 4

Question Number : 16 Question Id : 89951412399 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

According to The Plastic Waste Management Rules, 2016 Carry bag made of virgin or recycled plastic, shall not be less than _____ in thickness.

1. 10 microns
2. 20 microns
3. 30 microns
4. 50 microns

Options :

- 89951448421. 1
- 89951448422. 2
- 89951448423. 3
- 89951448424. 4

Question Number : 17 Question Id : 89951412400 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

_____ is the most vital step in waste management plan.

1. Segregation
2. Collection
3. Treatment
4. Disposal

Options :

- 89951448425. 1
- 89951448426. 2
- 89951448427. 3
- 89951448428. 4

Question Number : 18 Question Id : 89951412401 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Basel convention related to

1. control of trans-boundary movement of flora and fauna
2. control of trans-boundary movement of radioactive waste
3. control of trans-boundary movement of waste arising from normal operation of a ship
4. control of trans-boundary movement of hazardous waste

Options :

- 89951448429. 1
- 89951448430. 2
- 89951448431. 3
- 89951448432. 4

Question Number : 19 Question Id : 89951412402 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is called "Energy Bank" because of the energy saved in recycling?

1. Aluminium
2. Glass
3. Paper
4. Tyres

Options :

- 89951448433. 1
- 89951448434. 2
- 89951448435. 3
- 89951448436. 4

Question Number : 20 Question Id : 89951412403 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Plasma gasification is carried out at a temperature of _____ °C

- 1. 550
- 2. 1550
- 3. 2500
- 4. 5500

Options :

- 89951448437. 1
- 89951448438. 2
- 89951448439. 3
- 89951448440. 4

Solid and hazardous Waste Management-2

Section Id :	899514198
Section Number :	2
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	7
Number of Questions to be attempted :	5
Section Marks :	30
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	899514239
Question Shuffling Allowed :	No

Question Number : 21 Question Id : 89951412404 Question Type : SUBJECTIVE
Correct Marks : 6

Define solid waste. Give its classification.

Question Number : 22 Question Id : 89951412405 Question Type : SUBJECTIVE
Correct Marks : 6

Explain the waste collection routing ?

Question Number : 23 Question Id : 89951412406 Question Type : SUBJECTIVE
Correct Marks : 6

Explain different characteristics of solid waste.

Question Number : 24 Question Id : 89951412407 Question Type : SUBJECTIVE
Correct Marks : 6

Define hazardous waste. Explain characteristics of hazardous waste and the risks associated with it.

Question Number : 25 Question Id : 89951412408 Question Type : SUBJECTIVE
Correct Marks : 6

Explain various applications of fly ash.

Question Number : 26 Question Id : 89951412409 Question Type : SUBJECTIVE

Correct Marks : 6

What is sanitary land filling? How is it better than open dumping. Explain the criteria used to select a sanitary landfill site.

Question Number : 27 Question Id : 89951412410 Question Type : SUBJECTIVE

Correct Marks : 6

Make a plan to manage waste in rural area.

Solid and hazardous Waste Management-3

Section Id :	899514199
Section Number :	3
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	7
Number of Questions to be attempted :	5
Section Marks :	50
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	899514240
Question Shuffling Allowed :	No

Question Number : 28 Question Id : 89951412411 Question Type : SUBJECTIVE

Correct Marks : 10

Explain different methods used for size and volume reduction of solid wastes.

Question Number : 29 Question Id : 89951412412 Question Type : SUBJECTIVE
Correct Marks : 10

Define e waste. Explain different methods used for its management.

Question Number : 30 Question Id : 89951412413 Question Type : SUBJECTIVE
Correct Marks : 10

Explain salient features of different “Plastic Waste Management notifications” issued from time to time.

Question Number : 31 Question Id : 89951412414 Question Type : SUBJECTIVE
Correct Marks : 10

Explain different methods used for the treatment of biomedical waste.

Question Number : 32 Question Id : 89951412415 Question Type : SUBJECTIVE
Correct Marks : 10

Define composting. Explain its various types.

Question Number : 33 Question Id : 89951412416 Question Type : SUBJECTIVE
Correct Marks : 10

Explain different thermal methods used for the treatment and management of solid waste.

Question Number : 34 Question Id : 89951412417 Question Type : SUBJECTIVE
Correct Marks : 10

Write a detailed account of Swachh Bharat Abhiyan (Clean India Mission).