

PREVIEW QUESTION BANK

Module Name : cec24-bt02 Solid and Hazardous Waste Management-ENG
Exam Date : 18-May-2024 Batch : 09:00-12:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	15141001	<p>Which of the following is not a part of household waste?</p> <ol style="list-style-type: none"> 1. Vegetable peels 2. Fly ash 3. Waste paper 4. Glass <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
Objective Question				
2	15141002	<p>Which of the following is an inert waste?</p> <ol style="list-style-type: none"> 1. Garden waste 2. Food waste 3. Construction and Demolition waste 4. Activated sludge <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
Objective Question				
3	15141003	<p>In a town, 0.5 kg of waste is generated by a person each day. The population of the town is 5000. Calculate the total quantity of waste generated in one week in the town.</p> <ol style="list-style-type: none"> 1. 17500 kg 2. 25000 kg 3. 2500 kg 4. 1250 kg <p>A1 : 1</p>	2.0	0.00

A2 : 2

A3 : 3

A4 : 4

Objective Question

4	15141004	<p>Which of the following is NOT a traditional method of solid waste disposal?</p> <ol style="list-style-type: none"> 1. Open dumping 2. Open burning 3. Ocean dumping 4. Incineration <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

5	15141005	<p>Given below are two statements:</p> <p>Statement (I): E- waste contains toxic as well as valuable metals.</p> <p>Statement (II): E-waste is regarded as a hazardous waste mostly because of the presence of hazardous substances in it which cause serious environmental damage when not managed properly.</p> <p>In light of the above statements, choose the <i>most appropriate</i> answer from the options given below.</p> <ol style="list-style-type: none"> 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

6	15141006		2.0	0.00
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Which of the following is found in the maximum quantity in Municipal Solid waste

- 1. Plastics
- 2. Organics
- 3. Paper
- 4. Glass

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

7	15141007	<p>Given below are two statements:</p> <p>Statement (I): Disposal is the final step in the waste management.</p> <p>Statement (II):Waste collection is not the major and crucial step in waste management process.</p> <p>In light of the above statements,choose the <i>most appropriate</i> answer from the options given below.</p> <ul style="list-style-type: none"> 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

8	15141008	<p>_____ of the total cost of solid waste management is used for waste collection.</p> <ul style="list-style-type: none"> 1. 0 -10% 2. 11 -25% 3. 25 – 35% 4. 60- 70% <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

9	15141009	<p>Given below are two statements:</p> <p>Statement (I): Transfer station is a centralized facility located between the collection and disposal site.</p> <p>Statement (II): They do not have facilities for waste separation/ segregation, size and volume reduction (shredding, compaction) and component separation</p> <p>In light of the above statements, choose the <i>most appropriate</i> answer from the options given below.</p> <ol style="list-style-type: none"> Both Statement (I) and Statement (II) are true. Both Statement (I) and Statement (II) are false. Statement (I) is true but Statement (II) is false. Statement (I) is false but Statement (II) is true. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

10	15141010	<p>Which of the following are the Physical Characteristics of the waste?</p> <p>(A) Moisture content</p> <p>(B) Nitrogen content</p> <p>(C) Particle size</p> <p>(D) Density</p> <ol style="list-style-type: none"> (A), (B) and (C) only (A), (C) and (D) only (B), (C) and (D) only (A) and (B) only <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

11	15141011		2.0	0.00
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The calorific value is determined experimentally using _____.

1. Bomb calorimeter
2. Atomic absorption spectrophotometer
3. Paper chromatography
4. Nuclear magnetic Resonance

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

12	15141012	<p>100 g of solid waste was dried at 105 °C for one hour. The final weight of the sample was 42 g. Calculate the moisture content of the sample.</p> <ol style="list-style-type: none"> 1. 42% 2. 58% 3. 100% 4. 21% <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

13	15141013	<p>Hardness is the surface property of a material. _____ is considered as a random scale of hardness.</p> <ol style="list-style-type: none"> 1. Moh's scale 2. Likert scale 3. Celsius scale 4. Pyruvate scale <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

14	15141014		2.0	0.00
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Consider the below given properties of the waste:

- (A) Hardness
- (B) Glueyness
- (C) Moisture level

Which of these affect the size reduction of the waste?

- 1. A only
- 2. A and B only
- 3. B and C only
- 4. A, B and C

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

15 15141015

The most preferred option in the waste hierarchy is _____.

- 1. Recycling
- 2. Prevention
- 3. Reduction
- 4. Disposal

A1 : 1

A2 : 2

A3 : 3

A4 : 4

2.0 0.00

Objective Question

16 15141016

2.0 0.00

Which of the following is the correct sequence of different steps of waste audit?

- A) Plan the audit & determine the area
- B) Collect the waste to be examined
- C) Sort the waste by category
- D) Analyse the waste

1. (A), (B), (C), (D).
2. (D), (C), (A), (B).
3. (B), (A), (D), (C).
4. (C), (B), (D), (A).

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

17	15141017	<p>The correct sequence of different steps of recycling is</p> <ul style="list-style-type: none"> (A). Collection (B). Sorting (C). Rinsing (D). Processing (E). Recycling <p>Choose the correct answer from the options given below:</p> <ol style="list-style-type: none"> 1. (A), (B), (C), (D), (E) 2. (E), (D), (C), (B), (A). 3. (B), (A), (D), (C), (E) 4. (C), (B), (D), (A), (E) 	2.0	0.00
		<p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>		

Objective Question

18	15141018		2.0	0.00
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Which of the following is not an advantage of recycling of waste?

1. It reduces the quantity of waste disposed in sanitary landfills
2. It does not safeguard natural resources such as timber, water, and minerals
3. It prevents pollution by dropping the need to collect new raw materials
4. It saves energy

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

19	15141019	<p>Which among the following is a chemical process used for hazardous waste treatment?</p> <ol style="list-style-type: none"> 1. Adsorption 2. Sedimentation 3. Reverse osmosis 4. Ozonolysis <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

20	15141020	<p>Given below are two statements:</p> <p>Statement (I): Metals can be precipitated as sulphides from solution.</p> <p>Statement II : Ferrous sulphide is commonly used for the precipitation of metals from hazardous waste.</p> <p>In light of the above statements, choose the <i>most appropriate</i> answer from the options given below.</p> <ol style="list-style-type: none"> 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

21	15141021	<p>Atomic mass of Alpha particle is _____.</p> <ol style="list-style-type: none"> 1. 2 2. 0 3. 4 4. 8 <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

22	15141022	<p>Given below are two statements:</p> <p>Statement (I): Alpha particles cannot penetrate the skin.</p> <p>Statement (II): Beta particles can penetrate the skin.</p> <p>In light of the above statements, choose the <i>most appropriate</i> answer from the options given below.</p> <ol style="list-style-type: none"> 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

23	15141023	<p>Which of the following constitutes the largest fraction of Waste electrical and electronic equipment (WEEE)?</p> <ol style="list-style-type: none"> 1. Glass 2. Copper 3. Aluminium 4. Iron <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p>	2.0	0.00
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A4 : 4

Objective Question

24	15141024	<p>Which one of the following is an example of e-waste?</p> <ol style="list-style-type: none"> 1. Nuclear wastes, medical wastes, toxic industrial wastes 2. Plastic bags, cardboard boxes, corroded metals 3. Beverage cans, packaged boxes, plastic bottles 4. Sensors, alarms, sirens, TV <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

25	15141025	<p>What is a good way to dispose of e-waste?</p> <ol style="list-style-type: none"> 1. Burn it in your backyard 2. Dispose of it with household waste 3. Give it to a certified e-waste recycling company 4. Throw in the street <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

26	15141026	<p>Which of the following is not included in 3Rs approach?</p> <ol style="list-style-type: none"> 1. Reduce 2. Regenerate 3. Reuse 4. Recycle <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p>	2.0	0.00
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A4 : 4

Objective Question

27	15141027	<p>When the organic matter present in the sanitary landfill decomposes, it generates which gas?</p> <ol style="list-style-type: none"> 1. Hydrogen 2. Nitrogen 3. Methane 4. Oxygen <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

28	15141028	<p>Syngas is a mixture of _____.</p> <ol style="list-style-type: none"> 1. CO₂ and methane 2. CO and oxygen 3. CO₂ and oxygen 4. CO and hydrogen <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

29	15141029	<p>Which of the following is not correct regarding fly ash?</p> <ol style="list-style-type: none"> 1. Fly ash is generated by thermal Power Plants. 2. Fly ash is used to make bricks 3. The use of fly ash in cement production is not permitted in India. 4. Class F fly ash is having low-calcium content <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

30	15141030	<p>Which one of the following process/reaction does not take place in a landfills?</p> <ol style="list-style-type: none"> 1. Oxidation 2. Peptization 3. Acetogenesis 4. Methanogenesis <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

31	15141031	<p>Which one is the environmentally safe method of solid waste disposal?</p> <ol style="list-style-type: none"> 1. Ocean dumping 2. Open burning 3. Open dumping 4. Sanitary Land filling <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

32	15141032	<p>In thermophilic stage, temperature of a composting pile ranges</p> <ol style="list-style-type: none"> 1. 20- 45 °C 2. 45- 70 °C 3. 70- 100 °C 4. 100- 145 °C <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

33	15141033		2.0	0.00
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_____ collection vehicles are used for collecting waste from a distance of less than 15 km.

1. Bullock cart
2. Tricycles
3. Compactor trucks
4. Non- Compactor trucks

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

34	15141034	<p>Basel convention related to</p> <ol style="list-style-type: none"> 1. Control of trans-boundary movement of hazardous waste. 2. Control of trans-boundary movement of waste arising from the normal operation of a ship. 3. Control of trans-boundary movement of radioactive waste. 4. Control of trans-boundary movement of flora and fauna. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

35	15141035	<p>Microplastics range in _____ size.</p> <ol style="list-style-type: none"> 1. Greater than 50 mm 2. 5-20 mm 3. less than 5 mm 4. less than 1 mm <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

36	15141036		2.0	0.00
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Category 4 biomedical waste is collected in _____ colour coded bags.

- 1. Red
- 2. White/blue
- 3. Yellow
- 4. Black

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

37	15141037	Vacuum pyrolysis is carried out at a pressure of _____ kPa 1. 50 2. 10 3. 5 4. 25 A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
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Objective Question

38	15141038	The average per capita waste generation for a population greater than 5 million is _____ g/capita/day. 1. 210 2. 270 3. 500 4. 650 A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
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Objective Question

39	15141039		2.0	0.00
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Which ministry initiated the Swachch Bharat Mission (rural)?

1. Ministry of Environment, Forest and Climate Change
2. Ministry of Urban Development Housing
3. Ministry of Urban Development
4. Ministry of Drinking Water and Sanitation

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

40 15141040 2.0 0.00

What is the order of the waste management hierarchy, from most to least favoured?

1. Prevention- Recycle-Reuse- Disposal
2. Prevention-Reuse-Disposal-Recycle
3. Prevention-Disposal -Reuse-Recycle
4. Prevention-Reuse-Recycle-Disposal

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

41 15141041 2.0 0.00

Which of the following is a biological method of disposal of municipal solid waste?

1. Land fills
2. Shredding
3. Pulverization
4. Composting

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

42 15141042 2.0 0.00

pH of a corrosive substance is less than or equal to

- 1. 2
- 2. 4
- 3. 5
- 4. 7

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

43	15141043	<p>_____ list wastes are from specific sources.</p> <ul style="list-style-type: none"> 1. P 2. F 3. K 4. U <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

44	15141044	<p>Cytotoxic and expired drugs are disposed of by which method?</p> <ul style="list-style-type: none"> 1. Dumping 2. Autoclaving 3. Incineration 4. Chemical disinfection <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

45	15141045		2.0	0.00
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Class C fly ash is produced due to the burning of

1. bituminous coal
2. lignite coal
3. anthracite coal
4. peat

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

46	15141046	<p>The Solid Waste Management Rules were notified in</p> <ol style="list-style-type: none"> 1. 2001 2. 2004 3. 2016 4. 2010 <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

47	15141047	<p>Given below are two statements:</p> <p>Statement (I): Every Waste Generator shall segregate waste and store it separately and hand over to Municipal workers or authorized waste pickers.</p> <p>Statement (II): Waste generators are allowed to burn or burry the solid waste generated by them.</p> <p>In light of the above statements,choose the <i>most appropriate</i> answer from the options given below.</p> <ol style="list-style-type: none"> 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p>	2.0	0.00
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A4 : 4

Objective Question

48	15141048	<p>The Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 contains _____ schedules.</p> <p>1. 2 2. 4 3. 6 4. 8</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p>	2.0	0.00
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Objective Question

49	15141049	<p>Given below are two statements:</p> <p>Statement (I): Carry bags made of recycled plastic not to be used for storing, carrying, dispensing or packaging ready-to-eat or drink food stuff.</p> <p>Statement (II): Plastic Waste Management Rules 2016 are not applicable to rural India.</p> <p>In light of the above statements, choose the <i>most appropriate</i> answer from the options given below.</p> <p>1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true.</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p>	2.0	0.00
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Objective Question

50	15141050	<p>The anaerobic method of mechanical composting practiced in India is called</p> <p>1. Indore method 2. Bhopal method 3. Bangalore method 4. Nagpur method</p> <p>A1 : 1 A2 : 2</p>	2.0	0.00
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A3 : 3

A4 : 4