

Global Waste Management Systems

Waste Management · Answer Key · 12 Questions

1. In which year did the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal officially enter into force?

- A) 1989
- B) 1992**
- C) 1995
- D) 1998

2. According to the World Bank's 'What a Waste 2.0' report, what is the estimated global per capita municipal solid waste generation per day?

- A) 0.54 kg
- B) 0.74 kg**
- C) 0.94 kg
- D) 1.14 kg

3. The Resource Conservation and Recovery Act (RCRA) was enacted by the United States Congress in which year?

- A) 1970
- B) 1976**
- C) 1980
- D) 1984

4. What is the minimum temperature in degrees Celsius required for the thermal destruction of most hazardous wastes in a rotary kiln incinerator?

- A) 600°C
- B) 800°C
- C) 1000°C
- D) 1200°C**

5. Which nation was the first to implement a national 'Extended Producer Responsibility' (EPR) policy for packaging waste in 1991?

- A) Germany**
- B) Sweden
- C) Japan
- D) Canada

6. As defined by the EPA, a 'Large Quantity Generator' of hazardous waste generates at least how many kilograms of hazardous waste per month?

- A) 500 kg
- B) 800 kg
- C) 1000 kg**
- D) 1200 kg

7. The Great Pacific Garbage Patch is estimated to cover an area of approximately how many square kilometers?

- A) 800,000 km²
- B) 1,600,000 km²**
- C) 2,400,000 km²
- D) 3,200,000 km²

8. What is the typical methane concentration, by volume, in gas generated from a mature municipal solid waste landfill?

- A) 20-30%
- B) 40-60%**
- C) 70-80%
- D) 90-95%

9. The European Union's 'Landfill Directive' (1999/31/EC) set a target to reduce the landfilling of biodegradable municipal waste to what percentage of 1995 levels by 2016?

- A) 25%
- B) 35%**
- C) 50%
- D) 65%

10. How many hazardous waste categories were originally established under the 1976 Resource Conservation and Recovery Act (RCRA) listings?

- A) Two (K and P)
- B) Three (F, K, and U)
- C) Four (F, K, P, and U)**
- D) Five (F, K, P, U, and S)

11. What is the standard regulatory limit for dissolved oxygen in leachate treated at a wastewater treatment plant before surface water discharge, measured in mg/L?

- A) 2 mg/L**
- B) 4 mg/L
- C) 6 mg/L
- D) 8 mg/L

12. In the context of plastic recycling, which resin identification code (RIC) corresponds to Polyethylene Terephthalate (PET)?

A) 1

B) 2

C) 3

D) 4