

NAME: \_\_\_\_\_

**Instructions:**

Answer all questions based on practical scenarios provided. Show complete solutions and write answers in your own words. All outputs must be handwritten, including sketches or diagrams. Use clean, legible paper.

**Deadline:** May 9, 2025, 12:00 NN

**Submission:** Place your paper on my table before the deadline. Late submissions will not be accepted.

**1. Community Waste Profile:**

Imagine a small barangay with 50 households. Describe 5 types of waste likely to be improperly managed in that area.

- Classify each waste as Municipal Solid Waste, Hazardous Waste, Biomedical Waste, or E-waste.
- State how these are likely being disposed of, assuming no strict segregation policy is in place.

**2. Waste Generation Estimate (Show Solution):**

In your imagined barangay of 50 households (average 5 people per household), estimate the monthly waste generation using:

$$Waste \left( \frac{kg}{month} \right) = No, of\ people \times 0.5 \frac{kg}{day} \times 30$$

Suggest 2 waste reduction strategies that the community can adopt hypothetically.

**3. RA 9003 in Action**

You are a newly hired municipal engineer. The barangay captain informs you that residents dump mixed household waste along an open canal, causing flooding during heavy rain.

Tasks:

- Identify 3 key provisions of RA 9003 that apply to this case.
- As the engineer, outline 1 feasible action plan to help the barangay comply with the law using limited funds and manpower.

- Identify 1 potential challenge in enforcing your plan and propose a way to address it.

#### 4. **RA 8749 – Clean Air Act Scenario**

You are assigned to assess air quality around a busy tricycle terminal located near a public market. Several residents have complained of respiratory irritation.

Tasks:

- State 2 specific activities prohibited by RA 8749 relevant to the terminal situation.
- Recommend 1 engineering solution or policy measure that could reduce air pollution from the terminal area.
- Explain how regular monitoring can support the implementation of your recommendation.