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PART A → SOLID WASTE MANAGEMENT: CAUSE, EFFECTS, CONTROL MEASURES OF URBAN AND INDUSTRIAL WASTE?

Ans → SOLID WASTE MANAGEMENT is a term that is used to refer the process of collecting and treating solid wastes.

5 CAUSES and SOURCES

Source

Type of solid waste

① Residential

Food waste, paper, cardboard, plastics, textiles, leather, etc.

② Industrial

Housekeeping waste, packaging, construction and demolition materials

③ Commercial

stores waste - plastic, glass, food waste, wood

④ construction and demolition

wood, steel, concrete, dirt etc.

⑤ Municipal services

street sweepings, scrap materials, sludge

⑥ Process

scrap materials, slay, tailings

⑦ Agriculture

hazardous wastes, spoiled food waste.

## EFFECTS OF POOR WASTE MANAGEMENT

- Litter surroundings
- Impact on human health
- Disease causing pest
- Soil and Ground water pollution
- Emission of Toxic gases
- Impact on land Aquatic Animals
- Economic impact
- Global warming
- Gases from industries
- Burning of fossil fuels
- Nuclear accidents
- If solid waste are not collected and allowed to accumulate this may cause unsanitary conditions
- May lead to epidemic outbreaks
- Many disease like cholera, diarrhea, dysentery, plague, jaundice, gastro-intestinal diseases may spread.
- Ground water gets contaminated
- It enhances air and water pollution
- Provides breeding sites of insects and infectious organisms are produced.
- It modifies the physiochemical and biologic properties of plants and animals.

## CONTROL MEASURES

- Reduce, Reuse, Recycle of Raw materials and discarding waste.
- If usage of raw materials is reduced, the generation of waste also gets reduced.
- Plastic bottles, metal containers, clothes and many household items can be reused many times before discarding them.
- Rubber rings and other useful items can be made from discarded cycle tubes.
- Solid waste management is a manifold task involving many activities like
  - (i) Collection of solid waste
  - (ii) Disposal of solid waste
  - (iii) Recycle collection
  - (iv) Block collection
- All these help in controlling urban and industrial solid waste.
- Regulations and negative externalities
- Effective waste management system and resource management plans (RMPs) help in controlling solid waste.
- open dumping, sanitary landfilling or controlled Tipping, Incineration or Thermal volume reduction, Salvage or Manual component separation are also effective measures for controlling urban and industrial solid waste.

**PART B** → What is the role of individual in prevention of pollution?

**Ans** → Refuse, or say no to the use of plastic, instead of plastic bags, we can carry a cloth or jute bag with us.

Reduce the use of things that harm environment, Avoid using disposable plates and cups. Use washable napkin instead of paper napkins.

Reuse things rather than throwing.

Give waste paper, old clothes and rags for recycling

→ They can be pulped and used to make new paper.

→ We can practise some eco-friendly habits →

Switch off fans and lights when not in use

• Plant trees and take their care.

• Use water and, energy and other resources effectively

→ We CFC's free refrigerators

• Increase use of the renewable resources

• Use less polluting substitutes for harmful clean up agents, paints and other products.

• Use rechargeable batteries

• slow population growth.

• By refusing to eat meat, a variety of animals are preserved.

→ Individuals should prefer walking or using cycles instead of using motor vehicles, especially for smaller distances.

→ Individuals should reuse things wherever possible

spread awareness and inspire other people to prevent pollution.

Individuals should be encouraged to acquire information and innovations from world over and implement them locally.

Organize drives to clean streets and clean drains.

Use water resources effectively and efficiently  
Individuals should minimize the wastage of resources ~~as~~ such as electricity, coal. Every unit of electricity <sup>saved</sup> can be very beneficial for coming generation.