

Q.6.

Discuss the solid waste Management with special emphasis on waste disposal techniques.

SOLID WASTE MANAGEMENT:

Solid waste Management refers to the techniques to dispose off the solid waste without harming or polluting the environment.

TECHNIQUES OF SOLID WASTE MANAGEMENT:

Following are the techniques of solid waste management.

- a. Landfill
- b. Open dumping
- c. Incineration
- d. Composting

a. **LANDFILL:** In this technique, solid waste is buried after burning. A large piece of land is needed to dispose the waste. The landfill site should be 100 Km away from populated areas. This method of solid waste management is relatively advantageous as it does

not impact the environment negatively.

b. Open Dumping:

In open dumping, waste is directly dumped into land without being recycled. This method is very hazardous for environment and pollutes the environment.

c. Incineration:

Incineration is burning of solid waste at high temperatures i.e. $900-1000^{\circ}\text{C}$. Although waste is burned, this method pollutes the air to the great extent.

d. Composting:

Composting is the biological degradation of solid waste. The end product of composting is called Compost.

PROCESS OF SOLID WASTE MANAGEMENT:

These are various phases of solid waste treatment, after which the solid waste is disposed off properly.

1. Collection stage
2. Recovery process
3. Disposal stage

1. Collection stage:

In collection stage various factors are involved.

a. Collection staff: Effective recruitment and counselling of collection staff is crucial. Their salaries, other facilities and encouragement to do this job is the responsibility of the government.

b. Collection vehicles: Both large and small vehicles are required to collect solid waste. Their availability is the basic requirement for solid waste management.

c. Role of stakeholders:

Government, institutions, public and NGOs, TGOs are responsible for promoting and awaring people regarding solid waste management. Social media is the largest platform of awareness.

In Pakistan, especially in Islamabad, CDA is responsible for waste collection.

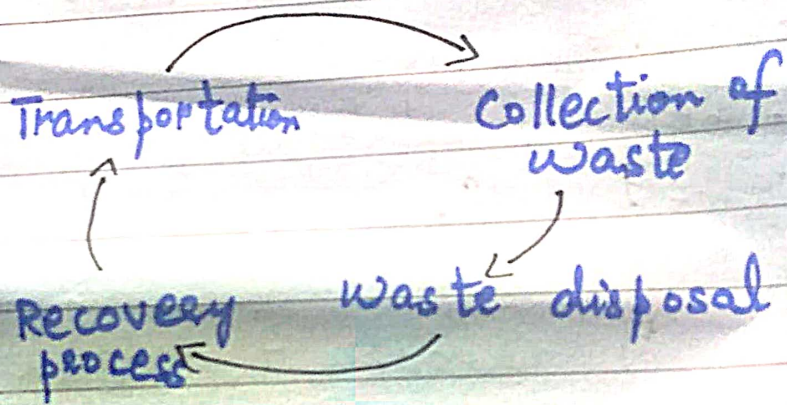
In Lahore, Lahore Waste Management Authority is responsible to collect waste.

b? Recovery Process:

In recovery process, solid waste

i.e., reusable is recycled through recycling process, **Recycle, reuse:** ^{reduce} Glass, plastic etc can be made reusable, via recovery process.

3. **Disposal stage:** Once the ^{recyclable} recycled waste is separated, all other waste is disposed off via one of different techniques of solid waste management.



PROCESS OF SOLID WASTE MANAGEMENT

CLASSIFICATION OF SOLID WASTE:

1. Biodegradable solid waste
2. Inert waste
3. Recyclable material
4. Domestic waste
5. Industrial waste

CONCLUSION:

In conclusion, it can be said that

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solid waste management pollutes environment negatively and it needs to be controlled via appropriate techniques.