

Refuse

- Household waste
- Street waste
- Trade waste

Preview from Notesale.co.uk
Page 5 of 75



Different Types of Solid Waste

- Municipal Solid Waste
- Industrial Waste
- Hazardous Waste
- Hospital Waste
- Construction and Demolition Waste
- Waste from electrical and electronic equipment (WEEE)
- Agricultural Waste

Preview from Notesale.co.uk
Page 10 of 75

Municipal Solid Waste (MSW)

- Municipal solid waste consists of household waste, construction and demolition debris, sanitation residue, and waste from streets.
- Mainly from residential and commercial complexes.
- With rising urbanization and change in lifestyle there is rapid increase and change in quantity and quality of municipal solid waste.

Preview from Notesale.co.uk
Page 11 of 75

MSW (contd.)

- Over the last few years, the consumer market has flourished with products being packed in cans, aluminum foils, plastics, and other such non-biodegradable items that cause incalculable harm to the environment.
- In India, some municipal areas have banned the use of plastics and they seem to have achieved success.

The type of litter we generate and the approximate time it takes to degenerate

Type of litter	Approximate time it takes to degenerate the litter
Organic waste such as vegetable and fruit peels, leftover foodstuff, etc.	A week or two.
Paper	10-30 days
Cotton cloth	2-5 months
Wood	10-15 years
Woolen items	1 year
Tin, aluminum, and other metal items such as cans	100-500 years
Plastic bags	One million years?
Glass bottles	undetermined

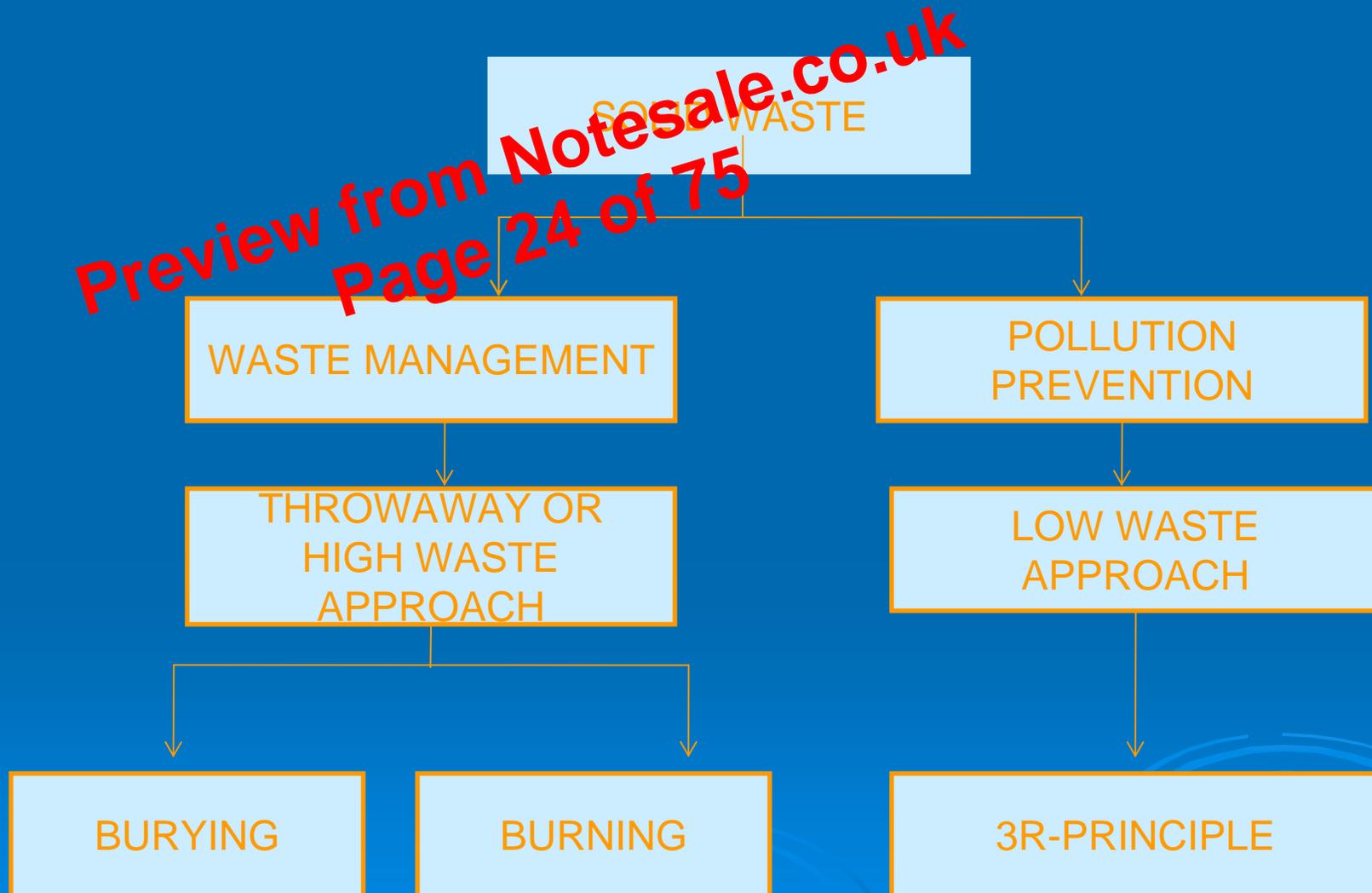
Preview from Notesale.co.uk
Page 14 of 75

Key issue involved

- Growth in population and increasing garbage generation
- Waste collection system
- Waste per capita
- Environment
- Proper management
- Scientific processing of the waste material depending on their nature
- Developing infrastructure for solid waste disposal and processing developing information collection and processing system

Preview from Notesale.co.uk
Page 23 of 75

Solid waste management tree



Reducing waste is often the cheapest option

Copyright © The McGraw-Hill Companies, Inc. Permission is required for reproduction or display.

Preview from Notesale.co.uk
Page 34 of 75



Reprinted with special permission of King Features Syndicate.

What should be done

Reuse

- Reuse corrugated moving boxes internally.
- Reuse office furniture and supplies, such as inter-office envelopes, file folders, and paper.
- Use durable towels, table-cloths, napkins, dishes, cups, and glasses.
- Use incoming packaging materials for outgoing shipments.
- Encourage employees to reuse office materials rather than purchase new ones.

Preview from Notesale.co.uk
Page 35 of 75

Municipal solid waste disposal methods

- Composting
- Sanitary landfill
- Incineration and pyrolysis
- Reuse, recovery and recycle

Preview from Notesale.co.uk
Page 42 of 75



Land filling.....

- Organic wastes are degraded by soil micro-organisms
- Microbes utilize the oxygen present inside the landfill
- Followed by anaerobic decomposition
- Water soluble organic compounds generated in this process percolates through the landfill soils

Preview from Notesale.co.uk
Page 54 of 75

