

- **Topic:** Food Packaging--- Introduction, Functions of Food Packaging and Innovative packing techniques.
- **Food:**
Food is an edible commodity that a living organism can eat, drink, chew, swallow and digest. Food is made up of living cells that is the reason it has the ability to be deteriorate easily, it requires packaging and preservatives to extend its shelf life.



Unpacked Food Commodity



Packed Food Commodity

- **Food Packaging:**
Food packaging is done in order to keep the food commodity fresh and hygienic. A package provides protection, tampering resistance, and special physical, chemical, or biological needs. The food packaging provides additional information as well, such as nutrition facts, weight of the food commodity, manufacturer's detail, contact and brand registration, etc. Packaging is a mode of storage for food items.
- **Functions of food packaging:**
Its basic role and need is the food safety.
 1. **Food protection:** I protects it from food deterioration and contamination. The packaging is design according to the product, to keep it hygienic, fresh, and flavorful with providing extended shelf life. The food protection is of 3 types:
 2. **Chemical Protection:** Chemical protection is done in order to protect for gaseous, moisture and light pollution. Some of the packaging has this chemical barrier available. **Glass and metals** provide a nearly absolute barrier to chemical and other environmental agents. **Plastic caps** have some permeability to gases and vapors, as do the gasket materials used in caps to facilitate closure and in metal can lids to allow sealing after filling.
 3. **Biological Protection:** The packaging provides protection from biological contaminants, such as, dirt, rodents, microorganisms and insects. In order to retard odor and dust transmission. Such barriers function via a multiplicity of mechanisms, including preventing access to the product, preventing odor transmission, and maintaining the internal environment of the package.
 4. **Physical Protection:** The packaging must be suitable according to the food commodity to retain the freshness and shape of the food product. The food should