Nowal Ashras Mention the full qs statement for evaluation Food Preservatives: Preservatives are food additives that play an important role in making food last longer or taste better. specifically, preservative help to control & prevent the deterioration of food, providing protection against spoilage from micro organisms (bacteria, yeast, moulds), life threatning botulism and other organism that can cause food poisoning High risk foods such as meat seafood, dairy and cheese serve as a breeding ground for potentially (breeding) danger micro-organisms Spoilage can also be caused by chemical or physical factor

such as oxidation, temperature and light. Different Types of Preservatives: preservatives used in food preservations are of two types. (i) Extracted from natural source, (Synthetically produced. Natural Preservatives: * Preservative natamycin (E-235) naturally sourced from soil barteria " * Kitchen Salt and sugar are also used as preservatives. Synthetic Preservatives: class E-Types of preservative no. cheese, bread, Sorbate Compounds oils, sauces, 200-203 Antimicrobials potato products, Fermented mile processed fraits, vegetables. Benz 201-2013 Benzeak E235 Natamykin chees & sausages.

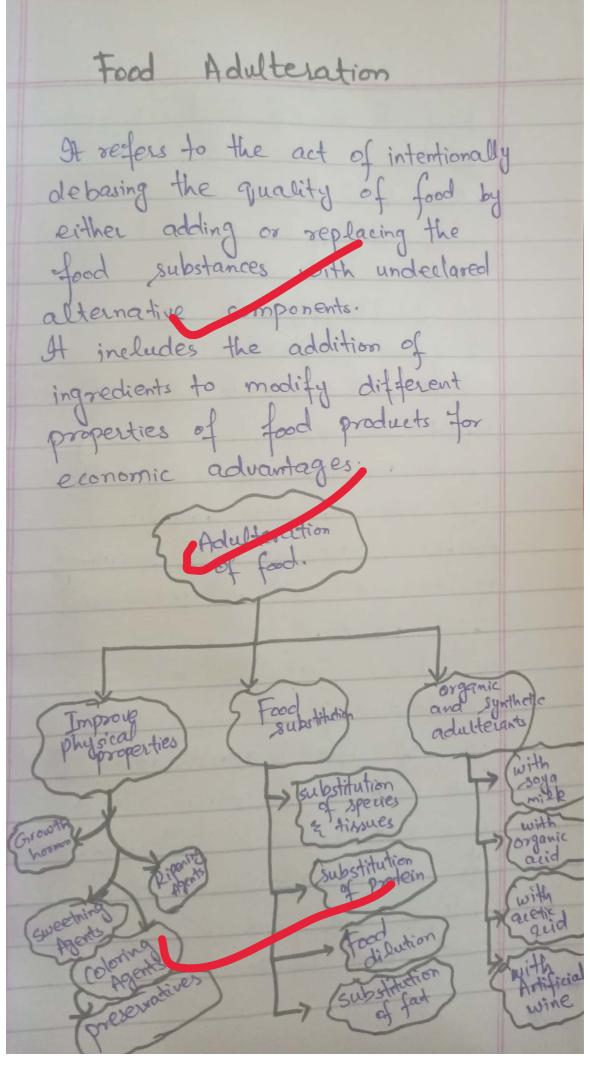
Types of preseur	atives	E no.	class	Food
	2	_ 	proponoic	Vinegal cheese mile, coffee
Anti-oxidar	th E	300-302	· A costoic	balea wares juices drink
	306	-309	Tocopheral	Meat, facts, of
*	E 320-	321	BHABHT	oils:
	E -33	0	Cilns auic	drink. Jams, jelli chees
Anti-microbial anti-oxidants	E 22	0-22.8	Sulphite companyols	Dried fruit
	E 249-2	52	Nitrite.	Meat, Pizza poultar sandwir

Food Preservation Methods There are many types of food preservation methods used ground the world. Here is the list of top 6 preservation methods. Drying: It is a time-honored method of food preservation. By reducing water content, this technique prevents pacterial development. Fall terms can be stored by drying in sun and wind. Smoking : Food is prepared by smoking, subjecting it to the smoke from burning wood to prepare, flavour, and preserve it. Most of the tire, meats and fish are smoke-cured because the smoke hes anti-bacterial and inhibitor properties. Freezing: most practical and speediest

methods for preserving fresh vegetable, fruits and meat is freezing. Food deterioration is decreased by freezing because very low Amperature hinder the development of germs Salting and Pickling:
Meats lose moisture when they are seasoned. Pickling involves preserving food by submerging it in a salt solution, souting it in vinegar or using oil. At 20% concentration salts kill mich a janisms. EDTA may also be added to pickles to increase the shelf life. termentation: The Lactor-fermentation process transforms a food's carbohydrates into

lactic acid, a naturally occurring preservatives that prevents development of dangerous bacteria. Canning: Food has been preserved by carning for approximately 200 met years. When food is canned all the Jerms are eliminated by boiling it in a can or jar before the container is shut. Sugaring: Similar to pickling, Sugaring is a technique of food preservation. Sugaring is filling food with pure sugar after drying it tirst to desiceate 1t. Sagar might be crystalline or in syrup form. Ir-radiations: Food ix-radiation

on food improves food safety and increases the lifespan of food items. Pasteurization: Pasteurization is one of the common food preservation technique in which food such as milk and fruit juice, are subjected to gentle heat, often at temperature below 100°c to destroy micro-organisms.



Key Forms of Food Adulteration The above figure represents some key forms of food adulteration. (i) Adulteration to Improve Physical Properties: Taste and appearance have high impact on commercial value of food products. Toreasing shelf life gives financial benefits Artificial sipening and sweetning agents are used to increase food palatability. (ii) Food Substitution: Substitution is the most diverse form of food adulteration, which includes the direct alteration of a part or whole food items or external addition of other inferior food products or fake nutritional compounds.

(iii) Organic and synthetic Adulterates: Illegal addition of organic acids, alcohols and esters in certain food products are frequently reported. Synthetic pharmaceutical compounds and drugs are also added into food items to induce therepertic effect. Dietary supplement is the most famous food category in this regard. Examples of Adulteration:-Janasjuel Janasjuel Adulteration Chalk powder in flour Banagati 2 7 in Ghee

Food Contamination It refers to the presence of unwanted and potentially harmful substances and material on food products and raw materia The world Health Organization (WHO) has recognized food contamination as a global challenge in several documents and reports. Types of food Contaminations There are three types of food contamination. (i) Biological Contamination: Biological contaminations refers to contamination by disease causing bacteria or other called pathogens.

(ii) Chemical Contamination: It occurs when chemicals get into food. Common sources of chemical contamination in a commercial kitchen include. * Kitchen cleaning agents. * Un-washed fruits and vegetables. * Pest control products. * Kitchen equipment * Plastic food containers. (iii) Physical Contamination: Physical contamination happens when physical objects enter food. Common sources of physical Contamination include * Hair * Glass metal + Pests. * Jewellary * Dirt * Finger nails.

Preventing Food Contamination The best way to prevent food food contamination from happening in a food business is through food safety training and education. Food handler's must be trained in; + safe cooking temperature. * Proper storage. * Effective Cleaning. * Sanitising technique. * Personal hygiene. Good structure and arguments

