FOOD QUALITY AND FOOD SAFETY

STUDY NOTES

- Food hygiene means to keep the food protected and safe during production storage transportation and handling so that it may not be contaminated and is safe for consumption.
- Purchase food items only from reliable sources and food items having standardised mark like agmark, ISI mark and FPO.
- Refrigerator should be set at right temperature 1°C to 4°C.
- Meat and perishable food should be used within 2 hours of purchasing.
- Food safety means that food will not cause any harm to the consumer.
- Toxicity is capacity to produce harm or injury under any condition to the consumer.
- Hazard is the harm or injury result due to addition of substance not used in prescribed manner and quantity. It can be physical hazard, chemical, biological.
- Physical hazard in food can be stone, hair, button, nuts, nails, fragments, feathers, stem, seed, etc.
- Chemical hazards can be pesticide, chemical residue, toxic metals, preservative, food colours.
- Biological hazard can be visible and invisible hazards in food. It consists of worms, fly, protozoa, mould, virus.
- If sour food is kept in copper or brass vessel then copper sulphate is formed which may cause food poisoning.
- Nickel present in stainless steel enters in excessive amount in food while cooking.
- Common causes of food contamination are infected food handler, improper storage, cross contamination, long holding period, undercooking and favourable temperature.
- Consequences of unhealthy practices mainly leads to various disease such as diarrhoea, typhoid fever, food infection, etc.
- Any intentional or unintentional addition substitution or extraction of substances which adversely affect the nature purity and quality of food substance is known as Food Adulteration.
- The Government of India has enacted the prevention of Food Adulteration Act in 1954.
- An adulterant is defined as any item which has a close resemblance with the original item in term of shapes size colour composition so that it cannot be distinguish with the original product.
- Insects infected serials and pulses low quality grains are mixed with high quality cereal.
- In Bajra argot seeds are added Kesari dal is added in chana and arhar dal.
- Milk is adulterated with the use of water. Sometime, starch rich substance like chestnuts bloating paper are added to thicken the milk.
- Sugar is adulterated with chalk powder and find chips where is jaggery is adulterated with grit and mud.
- · Honey is adulterated by adding sugar syrup to it.
- The government has created many institutions in order to secure consumer interest and provided quality foods.
 Marks are a guarantee of quality of products.
- Standardize marks like ISI mark for all industrial products, AgMark for agriculture products, FPO food products and FSSAI.

- FSSAI refers to Food Safety and Standard Authority of India which consolidate various acts and order that have handled food related issues in various ministries and departments.
- Codex Alimentarius Commission is the international body with the objective to protect the health of consumer and
 facilitate food and agriculture trade. It published document which means food code and collection of international
 adopted food standards.
- Codex India is national coded contact point for India and located at directorate general of health services, ministry
 of Health and Family Welfare Government of India.
- ISO is a worldwide non-governmental federation to promote the development of standardisation and related activities in the world for exchange of goods and services with intellectual, scientific, technological and economic activity.
- WTO is World Trade Organisation with the objective to help trade flow smoothly, fairly, freely by trade agreements and settling trade dispute and assisting countries in trade policy issues.
- Food safety and quality ensured through good manufacturing practices, good handling practices and hazard analysis critical control point.
- Good manufacturing practices ensure that manufacturer take all proactive steps so that they produce safe products for the consumer. It minimize the false labelling and removal of contamination.
- Good handling practices ensure that product is safe from farm to the store.
- HACCP is approach to food manufacturing and storage in which all process evaluated on the basis of hazard. Each identify hazard at every stage of food chain.
- FSSA 2006 give primary responsibility for food safety through HACCP, GMP and GHP.
- Food industry provides job opportunities as a analyst in quality control lab, quality control manager, food auditor, research and development department, trainer, food safety manager and other post at different food industries.

QUESTION BANK

MULTIPLE CHOICE QUESTIONS

英州	CHARLEST ACTUAL AREA	INOE, IL CLIO		AOCOLO INC.	The Art of the Control of the Contro
1.	To keep the food safe during (a) Food safety	g production, storing, tran (b) Food quality		ation and handling is Food hygiene	known as (d) Food adulteration
2.	Staphylococcus microorganis (a) Liver	ms present in (b) Stomach	(c)	Wound	(d) Hair
3.	Under favourable conditions (a) 20	one bacterium would mu (b) 10		into la 30	kh bacteria. (d) 40
4.	Which of the following optic (a) Not coughing or sneezin (c) Removing loose jewelry	ng over food	(b)	Not touching your h	air while preparing food
5.	The person who is cooking the (a) Environmental hygiene (c) Kitchen hygiene	ne food and serving the fo	(b)	hould keep his hand w Personal hygiene Serving hygiene	vashed and nails cut comes under
6.	Which statement is incorrect (a) Perishable food should by (b) If this infect tablets are	be stored in refrigerator.		must be cleaned befo	ore using the food item.

(d) Once a food is open its content should not be transferred to glass jar to prevent any reaction with the food.

(c) All food should be covered with tightly fitting leads to prevent cross contamination.

7	Salmonella is spread throug	h					
/.	(a) Water	(b) Cross contamination	(c)	Throat	(d) Air		
8.	 Hygiene while cooking is not maintained by: (a) Food needs to be placed at a cool and dry place if cooked food is not served immediately the moisture prese in food can cause growth of bacteria. 						
	(b) Metal of the vessels an	•	od r	ooisoning.			
	(c) Keep left over food wit(d) Clean all the appliances		after	the use			
0	. ,				n body which is poisonous for		
9.	health.	r oody which is poisonous for					
	(a) Copper	(b) Zinc	(c)	Iron	(d) Potassium		
10. All are good hygiene practices while serving food except(a) Finger or thumb should not touch the food.							
	(b) Wash the hands and cut the nails before serving the food.(c) Food should be served in decorative plate.						
	(d) Food should be served in decorative place. (d) Food should be served in clean place and in clean utensil.						
11.	Bacteria grow between			7			
	(a) $2 - 4^{\circ}C$	(b) $5 - 57^{\circ}$ C	(c)	10 − 20°C	(d) $40 - 50^{\circ}$ C		
12.	Consequences food infected (a) Cholera	by insects are: (b) Typhoid	(c)	Diarrhoea	(d) All of the above		
13.	 According to which statement, food is not considered adulterated by PFA: (a) If any constituent has been removed from food partially or fully. (b) If food is infested by insect worms and weevils. (c) If food is prepared, pack and stored under unhygienic condition. (d) If food not contain or processing has produced in it injurious ingredient. 						
14.	4. What is full form of PFA?						
	(a) Prevention of Food Act			(b) Protection of Food Act			
1	(c) Prevention of Food Adu		, ,	(d) None of these			
	Government of India has en (a) 1950	(b) 1954	(c)	1855	(d) 1953		
16.	A substance intentionally ad (a) Food poison	ded that affects the nature (b) Food adulterant		I quality of food is calle Food contaminant	d (d) Food material		
17.	Which stage does adulteration (a) Producer	on take place in? (b) Distributor	(c)	Retailer	(d) All of these		
18.	Why are adulterants added? (a) To increase shelf-life of	products	(b)	To improve flavour col	or and appearance		
	(c) To sell lesser quantity at the same price		(d)	None of these			
19.	Methods for detection of cor (a) Visual tests	mmon adulterants are (b) Chemical tests	(c)	Physical tests	(d) All of these		
20.	What is adultered in black p (a) Papaya seed	pepper? (b) Sand	(c)	Stone	(d) Stem		
21.	Cereal is adultered by (a) Stone	(b) Low quality cereal	(c)	Dry twigs	(d) Mud balls		

22.	What are added to thicken t (a) Flour of chestnut	he milk? (b) Powder	(c)	Blotting paper	(d) All of these	
23.	What is used to enhance the (a) Methanol yellow			wder? All of the above	(d) None of these	
24.	Ground chicory seeds is adu (a) Tea	ltered in (b) Coffee	(c)	Milk	(d) Turmeric	
25.	If 40% of individual intake (a) Kesari dal	of, the perso (b) Mentail		ay become paralytic du Argemone Seeds	to lathyrism. (d) Milk	
26.	Lathyrism mostly found in (a) Boys	(b) Girls	(c)	Old age	(d) Infant	
27.	Initial symptoms of lathyrism (a) Night blindness (c) Vomiting	n are		Stiffening and pain in All of these	knee	
28.	Which colour is widely used (a) Red	in amongst all prohibited (b) Orange		our? Metanil yellow	(d) Pink	
29.	Expensive seed (a) Mustard seed			none seeds. Stone	(d) Stem	
30.	Consumer can avoid adulter (a) Not influenced by adver (c) Purchase labelled produ	rtisement	` '	Buy food products from reliable shop All of these		
31.	ISI refers to (a) Indian Standing Institute (c) Indian Standard Institute		. ,	Indian Standard Insurance India Standard Institute		
32.	BIS developed the mark of (a) Agmark	(b) ISI	(c)	Hallmark	(d) FPO	
33.	Which of the following is C (a) Agmark	ertification Mark for all in (b) ISI		trial products manufact Hallmark	ured in India? (d) FPO	
34.	After how many years(a) 1	(b) 2 marks are review	ed? (c)	4	(d) 5	
35.	 Which statement is correct about ISI? (a) It ensure strict quality control right from procurement of raw material. (b) It develops awareness among consumers to safeguard their interest. (c) It gives manufacturers license. (d) All of these 					
36.	On which item, ISI is not pa	resent (b) Milk powder	(c)	Pressure cooker	(d) Door	
37.	Real ISI carry mandatory (a) 5	(b) 4	umb (c)		(d) 6	
38.	Which mark is Certification (a) FPO	Mark on all processed from (b) FSSAI		roducts? ISI	(d) AGMARK	
39.	FPO mark guarantee that the (a) Food safe	e product has been manufa (b) Clean		red in env	rironment. (d) Industrial	
40.	AGMARK is given to (a) Mustard oil	(b) Gram flour	(c)	Soyabean seed	(d) All of these	

41.	(a) It establishes norms for agriculture and livestock(b) It doesn't guarantee to quality certification.(c) It give license to company.(d) It frame quality standards for agriculture common	at n	atural stages.		
42.	Full form of FSSAI is (a) Food Safety and Standard Authority of India (c) Food Safety and Standardized Authority of India		Food Safely and Standa Food Safety and Standa		
43.	Which act is not repealed after commencement of FS (a) PFA 1954 (c) Vegetable Oil Products Order 1947	(b)	et 2006? FPO 1955 Food Making Act		
44.	If misleading advertisement is published then FSSAI (a) 10 lakh (b) 2 lakh		e penalty of 4 lakh	(d) 6 lakh	
45.	Which of the following is not an international organic practice for selling of the food? (a) CAC (b) ISO		n to protect health of co	nsumer and prevent dishonest (d) UNICEF	
46.	What is the full form of CAC? (a) Codex Alimentarius Commissionary (c) Code Alimentary Commission	. ,	Codex Alimentarius Co Codex Alignment Com		
47.	The document published by CAC includes		Codes of practice All of the above		
48.	Which of the following is the National Codex Contact (a) Codex India (c) Codex America	(b)	nt for India? Codex Europe Ministry of health and	family welfare	
49.	Which of the following international organisation is facilitate the international exchange of goods and services (a) Codex (b) ISO	vices'	•	andardisation and activities to (d) UNICEF	
50.	In which year, the WTO was established? (a) 1994 (b) 1995	(c)	1996	(d) 1997	
51.	Which of the following organisation helps trade flow (a) Codex (b) ISO		othly and settling trade of WTO	lispute? (d) UNICEF	
52.	Full form of GMP is (a) Good Manufacturing Practices (c) Good Manufacturing Protocols	` '	Good Made Protocols		
53.	What is full form of HACCP? (a) Health Analysis Critical Control Point (c) Health Analysis Control Critical Point	, ,	Hazard Analysis Critica Hazard Analysis Contro		
54.	Which of the following provides assurance about safety of food an assessment of hazard during the food chain raw material, procurement manufacturing, distribution and usage of product? (a) HACCP (b) WHO (c) ISI (d) WTO				
55.	Which of the following is not feature of GMP? (a) Mislead consumer (c) To protect consumer	` /	Remove contamination Minimize false labelling		

56. Biological catalyst increase chemical reaction in food by (a) Pesticide (b) Moisture (c) Enzyme (d) Exposure to light 57. takes place when organism produce toxin and these toxins in the food cannot be deducted by appearance or taste. (a) Food infection (c) Food intoxication (d) Stomach infection 58. hazards are living organism and microbiological organism associated with food and cause di called food borne pathogens. (a) Chemical (b) Biological (c) Physical (d) All of the above 59. Salmonella exist in									
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