	Assignment #2
	Muhammad Arham
hair Plant in the last the second	78-06Z
	Differenciate between Food Additives
10 7 4 4 1	and Food Presemotion
	Food Additives:
	"Food aditives are substances
Mark the second	that become part of a good product
	when they are added during the
***************************************	processing as waking of that food"
	There are two types of food additives:
	2) Artiquial ex Man made Additives
Friday, and was some	(2) Natural 700d Additives:
	· There include herbs or spices to add flavour
	to 700d.
	. Vinegar for pickling foods. Salt to preserve meats.
	(2) Man-made 700d additives:
	· Anti-Caking Agents: Stops ingredients from
	sticking together and forming lumps.
	Antioxidents: Slow or Preun the oxidative
	Deterioration of Joods.
	. Artificial sweetness: Thereases the sweetness

	of food without adding a lot of sugar.
n na naire na shani ga na na shanin sh	. Bulking Agerils: Increases the udume of
	good without majorly changing its
	available energy.
	· Solors: Add of reduces colors to goods.
	_
	toaming Agents: Maintain the even
	dispersion of gas in accused foods.
	· Grelling Agents: Change the texture of 7000
an infra fotographic	via gel formation.
	. Mineral salts: Ethan The texture and flavour
	of Loods.
	Food Preservatives
	Food presentatives are the substances
	that are added to the good to
	prevent decomposition by microbial growth
	or by underivable chemical changes.
	Food prematives are divided into four
	types:
	1) Natural Jood preservatives
	a) Chemical food preservatives
	3) Artificial food preservation
	4) Harmful 2000 preservatives.
-	a) Matural food preservaties:
The state of the s	These includes soit, sugar, alcohol

Attempt the differences qs by giving multiple points side by side in a tabular form

 uinegas etc. It is the traditional method	
that is used in houses to preserve	
Lood.	
a) Chemical 700d preservaties:	
These include Benzoates, Nitrates,	Í
Sulphites, Sorbates etc. It is the	
efficient and food around method to presence	
good gar a longer time.	
 3) Artificial food preservation:	
These include the substances that	
stops a delayed the growth of bacteria	
spoilage and its discoloration, such as:	
Antimicrobial agents, Amoridants, cheloting	
agents etc.	
4) Hamful food preservatives:	•
Benzoates, Butylotes, BHA and Caramel	
are considered as harmful food preserved	wes.
They causes different disorders such as	
asthema, liver di ears, rashes, all agres as even	
can cause cancer.	
Food Presewation Methods	
Here are some methods, that	
can be followed to preserve food:	

	4) Salling: Drawing and moisture through
	osmosis making it digit for
era Personal de Proposition	bacteria to there.
	2) Drying: Remaing moisture to provent
	the growth of bodesia, years
to the region of the same	and malds.
one of the second second	3) Freezing: lowering the demposture to
Si managan an managan	slow down backerial growth
	and ensyme activity.
	4) Pickling: Using vinegas, brine as oil muced
	with sall to create an acidic
The Thermal Special Control	envor ment that inhibits microbal growth.
	(s) Canning: Sealing food in airtight
	Containers after healing in the backeria.
	6) Vacuum Sealing: Removing air grom
	Packaging to prevent oxidation and slow down spoilage.
	7) Fermentation: Allowing natural bacteria
	to comest sugges into acids or
	aloohal, preserving the food.
The Section of Section 1	, ,
	- Food Adulteration and Food Contamination
	1) Food Adulteration:
To the territory street from	Food adultination refers to
The Replacement of	the deliberate addition of injerior
	n de la companya de l

	or harmful substances to food, as	
	the remaral of valuable ingredients	lago Le le company
egan, garancellagi, inchine, mendi selasah	to increase the quartity or to	
we will be a second of second	reduce the costs, often for financial	
the same of the same of the same of the same	gain. Examples include imixing of water	
	into milk or adding synthetic dyes	Marian no como como
an an No. of Market Market State Control	to enhance cola.	
ar fel i Menacina i displata di cur	Food: Contamination:	
	Food combamination occurs	CONTRACTOR CONTRACTOR
	when hamful substances like bocteria,	
	chemicals of foreign sojeds incidently	the barrade and Till Political
	enta food making it unage for	
	ansimplian. This can happen during	-
	production, processing, or handling, Common	addition of 10 (see and
	antaminations include pericides, badeia	
	11/2 Salmonella and alleyens.	Marie a section
	Suhile adulteration 13 intentional	mathagina daggisin
	whereas, contamination is unintentional.	
		the last regions (the first see to
are an estimate, and commen		Security of the second

Assignment No. 3	
- Write definitions, symptoms, couses,	
causal agents, treatment and prevention	_
of the following diseases.	
	_
_ w Polio_	-
Oe jinition:	_
Pollo is highly injectious viral	
disease caused by the policions. It primarily	_
effects the news system, potentially leading	_
to paralysis, music weakness and in	_
severe cases couses death.	_
Symtoms: Fever, Johique, herdache, nausea	-
sare throat, and vanishing. Other	_
severe symptoms include muscle weathers,	_
paralysis, difficulty in breathing and permanent	
disability.	
Couses: Polio 13 coused by poliousus	
which spreads through person to person	
contact, direct contact with infected saliva	
Casual Agent: Paioums is the casual agent	
in polio disease, a highly comagious	
virus from the Enterovirus genus.	

Treatment , Thue is no complete treatment to are paio. However, treatment fecuses on allowating symptoms and preventing complications such as our relieves, physical thereon to reduce muscle alrophy and preathing support for patients with respiratory dufficulties. Prevention: The bed way to prevent once from paio is vaccination, i.e. Inactivated Polio Vaccine (IPV) which is given through injection. Some other preventions include Good Hygiene, i.e. washing hards with anti-bacterial sop and consuming clean (2) Malaria_ Deginition: Malaria 15 a life-thredening disease caused by parasites that are transmitted to humans through the bites of injected female "Anopheles mosquitoes". It primary effects red blood cells, leading to four, chills and anemia. Symptoms: Common symptoms include fover chills, headache, Jotique, muscle pain,

nousea, sweating, variting, abdominal pain and even disturbance of respiratory system. Causes: Malaria is caused by the bites of infected genale Angheles mosquito coming the parasite. Cosual Agents: This disease is assed by Plasmodium parasites, with five mein species affecting humans: Plasmodium Jalcipaium, Plasmodium vivax, Plasmodium ovale, Plasmodium malariae and Plasmodium knowlesi. Treatment: An ordinalorial drug can be used as a treatment, however treatment also depends upon the type of parasite and the region where the infection was occurred, such as Chloroquine, Ardemisinnbased combination therapies LACTs) and Primagune. Prevention: Preventing mosquito bites and controlling maquito population are keys to prevent majoria. Some other measures that can no be taken to prevent from this disease includes; insecticide treated bed nets; indoor residual spraying, artimalarial

medications, wearing protective clathes, using must repellerts and most importantly vaccine. _(3) Hepothis ___ Deginition: Hepathis is an inflammation of the user after caused by what infections, though other factors such as toxing autoimmune diseases, and alcohol abuse. Symptoms: Its only symptoms include fatique, vomiting, loss of appetite, law grade Jever and Joint pain. Journaice: Yellowing of Ikin and eyes, dark wine and pale stools, some other symptoms include abdominal pain apecially in upper right side, it wing and muscle pain. Causes: Hepotatius is a unal injection usually caused by alcohol abuse, druginduced liver injury, taxins and autoimmune diseases. The are five main hepatitis unises, such as A, B, C, D and E. Cosual Agents: repositions A virus: spreads through conteminated food as mades. · Hepotitis B: Spreads through contact with infected blood, somen a other body flids.

. Hepatitis C: Mainly spread trough blood to blood contact eg. sharing needle. Hepatitis O: Also spreads from Judy Alvido when contacted with ma body. Hepatitis Es Transmitted through contaminated water, mainly in developing regions. Treatment: In severe cases or liver damage, liver transplantation may be required. However, Hepatitis A and E usually readure on their own through proper supportive case i.e. hydradation and test whereas B and C requires intivival medications and regular manitoring and long term Aveadments: Hepatitis O can be treated with artisted drugs like Pegylated interferon-Prevention: Awarding texic substances including dugs and other hamps chamicals. Maintaining good hygiene i.e. washing hends, drinking dean water and avoid sharing needles or rasors. Other important practices includes the screening of blood peters, transfusion and blober vaccination.

(4) (Dongue) Definition: Danque is a unal injection transmitted by the bite of interled "Aedes mosquitos". Symptoms: (1) High Jover Lopto 104°F or 40°C). (2) Severe Headache (3) Pain behind eyes (4) Joint and in se pain (5) Vomiting (6) Skin rash (7) Severe abdominal pain (8) Sudden drop in blood pressure (01) DIHICHLY in breathing. Couses: Dangue is coused by dangue vinus (DENU), which has four differed scrotypes DENV-1, DENV-2, DENV-3 and DENV-4. Cosual Agents: Dengue Virus (DENN), a member of Javivirus genus, trousmitted by the wites of masquitos primaily Acdes aegypti and Aedes albopictus. Treatment: No specific and treatment exists, however management focuses on supportive care which includes hydration, pain rebevers, hospitalization and blood

transfusion lin case of severe bleeding from guns and keths) Preventions of preventions on take place to tackle this disease such as: Elaminating stending water where mosquitos breed, use musticides, wear projective dolling, install window and door screens de beep masquitos away. Furthernose, vaccination and community health measures can also help to (Diarrhea) Definition Drawhea is the condition of having loose, watery stools three or more times a day. It can be acute, lasting for few days or can be chronic lading two to four weeks. It can lead to dehydration, especially in children and the elderly and some times it cen be life threatening.

	Symptoms:
-	· Frequent loose or motery shoots.
Performance of the Property of	. Abdominal cramps or pain. · Blooking
	· Nausea or romiting · Fener
National Control of Co	· Dehydration.
Server with the server of	Causes:
	Diamhea can be caused by a variety
	ef factors including; infections through
	bacteria, viruses or Pesticides intibiotics,
	loose or indolerance of food, digestive
	disorders and contaminated food or
	water.
	Cawal Agents: Common agents, causing
	diarrhea are: Bacterial injections, Ural
	infactions, Parasitic infections and Toxins
	treatment: The primary and important
	treatment carried on in diarrhea is
	rehydration to place lost fluids and
	electrolytes. 1e. ORS, a mixture of Salt, sugar
•	and worter. Other treatments include
	antidiarrheal medications, in some badenal
	cours and problatics, to

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	help to restore the balance of good	amount a figure of the same processing
	bacteria in the gut.	
	7	
	Preventions: There are some preventions	
garanasaya ay ay dharafa ay		
	that can be taken to remain sayer There	
	are as following.	
	(1) Dunking clean mader	-
	(2) Ensure acress to proper sanitation.	
	(3) Washing hands regardly before eating food.	1
	(4) Proper handling of Joad.i.e. Fresh and	
	well oocked.	1
	Water Maceson	
	2514 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	(5) Avoid contaminated food and water.	
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