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9.1>	Define fond science, exlist properties 4 describe
	any one?
\rightarrow	Food science
	"Food science is the study of preduction,
	"Food science is the study of preduction, beautisin, preparation, evaluation, trilization of food"
•	Properties:
	- Physical peoperties
	- Mestanical peoperties
	- Thermal peopletics
	- Fleeteical peoperties
	- Optical peoplecties
	- chemical peopleties
	- Hagenscopic pensestics
	- Hygrascopic properties - Rheal agical properties
	To just the
	Physical peoperties:-
<u>Gri</u>	- It is important in the distington
	- It is important in the design of any particular machine or analysis of the behaviour of the product during process.
	of the Rendust during Project.
	- shape Asize
	- shape soize - volume
	- Parosity
	- chéface area
	- October Office
	- specific granity
	- spent c granty

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	- Importance of physical peoperties -		
	These peopleties are necessary for		
	the design of :-		
	- dearing unit		
	- Greating unit		
	- sepac ating unit		
	- Handling unit		
•	- Shorting unit		
•	- storing unit		
	- drying system		
g. e>	Define food, exhibit components of food explain		
	(achahydrate?		
\rightarrow	Food :-		
	food is the gasue of edible substances		
	THE THING BOILDS F TEPAITS		
0	the old tissue 4 builds the new tissue".		
	- Water		
	- Calbohy drates		
	- Proteins		
	- fats		
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-	- Havous WWW.BSCAGRISTUDY.ONLINE		
	- colone		
	- fibre		

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	Carpohydrates:
	- These are the compounds made up of three elements
	Culbon, hydrogen 4 oxygen.
	- The main carbohydrate found in our food are in the form of glucose other sugers 4 starch. - Many of the complex carbohydrates are good source
•	- Many of the complex carbohydrates are good source of fiber.
	- source of carbohy brates - these include cereals such as wheat, maize, Jawae, bajea, sugercane sugerbed
	ete.
	# Function of carbo hydrates:
	- Major source of energy for the cell. - Major structural compoent of plant cell. - Immediate energy in the form of glucose.
9	- Immediate energy in the form of glucose.
٠,٠	- Reserve or stored energy
	- It is a source of energy for the body.
	De Di
<u>g .(e)</u> .	Define food presservation, give its method describe chemical method of food presservation?
	Defn:
	Contraction is a Diagram
	which physical of chemical agents are used to prevent microbial spailage of food.
	microbial spoilage of tood.

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	# Method of Preservation:
	- Chemical
	- Radiation
	- brying
	- heat
	- 100 temperature
^	- miceowave processing
	- high pressure flacessing
	- Bactericidal methods
	- Bacteriostatic methods
	The state of the s
	# chemical preservation:
	- chemicals used to preserve should be peoplely controlle
	4 non-irritant.
	- Benzaic acid (sulphar dioxide.
,	- salt of benzoic acid called benzoate increases
-∕	the presence of cuebon dioxide 4 is used as
	preservative.
	procedure.
	- but of sulphar dioxide called as potassium
	meta bisulphite is a coystalline salt.
	- They dealy the growth of micro-organisms.
	Øx.
	- Antioxidants
	- colour additives
	- Flavour additives
	- sweet eners
	- Emulsi fiers

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9 4>	Detide food spail, Edi	et its classification, give food based on ease of
	Spoilage?	food based on ease of
\longrightarrow	Deto -	
	in the visual smell 4	can be defined as any changes tenture of food that makes
7	It unacceptable for c	onsumption".
	# Type / exlist classifi	cation food spoilage:
	a. Physical spoilage -	
	a). chemical spailage -	of vegetable
	- Oxidation	of fat
	- Browning a	f fruits 1 westables
	c]. Microbial repoilage - Enzyme	e . du . L'a m
·	- Growth o	f microorganisms
		d based on ease of spoilage =
	1). Stable Inon perishabl	foods :-
	tood which do	not spoil unless handle
	Corclessly Sugar, flour	e te .
	,	
	2) Semi-perishable foods	244 441111 handlad 4
	oill runain unspoiled	existely handled 4 stored they
	" y strike , apple	July ette

	Name of the Student	Reg. No
		Date : / /
	9) Perishable foods: -	19 19 3
	- This group include moust	of our important daily
	food that spoil readily	unless special preservative
	method are used.	219
	ox. frish, milk, vegetable	s eggs etc.
9.5).	Enlist Hational 4 internation	onal agencies in imper-
4	ving nutritional status in purpose explain any one	o amounty , give its
	purpose explain any one	agencies
\rightarrow		
	- Ford foundation	
	- Ford towns atton	
	- sos village	· / / / /
	- saint john ambulance as	secriation
	- child in need institute	
	- Sharat serak camaj	
۵	- All india blind relif socie	N
	- Camila danning associati	on of India
	- central social welfare	on ard.
	CARTERA	and the state of t
	International agencies:	
	- WHO	
	- UNICEF	
	- CARE	the contract of
	- T.LO	
	- UNDP	
	- UN FPA	
	- USAID	
	- WORLD BANK	
		ž.

	# lospose of agencies:	
	- To education of children.	
	- To premote & undust reserch.	
	- To peorite health support to people.	_
	- To help training feducation of teachers.	
	- To ensuring safety of public.	
1.	- To streng + bening families to successfully 1	ā
	- To help training feducation of teachers. - To ensuring safety of public. - To streng + hening families to successfully 1 - Care for their children.	•
	# WHO :-	
	- WHO stand for world health organization.	
	- WHO is established in 7th April 1948.	
	- It is a specialized non-political nealth	
	agency of united Mation with headquaretor	
	of Genera, switzerland.	
	- It is responsible for praviding leadership	_
	on alobal health matters.	
	- Every year 7th April, is celebrated as "world	
	Health Day.	
	- "The attainment by all people the highest level of health" is a vision of WHO.	
	level of health" is a vision of WHO.	
	Function of WHO:	_
	- set global standard for health.	
	- Gire wooldwide guidance in the field of health.	
	- co-operate with governments to strengthen national health programs.	1 4
	national health programs.	

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	- Develop & transfer health technology, information 4
	standards.
9.1	Define Malnuteition gire its type 4 explain any one?
.,	Malnutrition is the condition in which a body
	do not set proces nutrition or act over nutrition
•	do not get proper nutrition or get over nutrition 4 as the result a deficiency or excess or imbala-
	need of energy".
_	Type of malnutrition:
	*
	Acc. to the nutritional status:
	1). Avec nuteition:
	en Dibibetes, Renal disease, Disordu of livre.
	2. Undu nutrition:
	a). Acute under nutrition:
	Marasmus, kwashiorkor
***************************************	b) chronic under nutrition:
	stunting under weight
	87 kg h lbs commercial to the total to the total to the total to the total tot
	B). Acc. to the source of nutricat:
	1) Isotein energy malnutrition: - Marasmus, kwashiorkor
	9 Micronutrical malnutrition:
	- Vitamin deficiency disorder - Iodine deficiency disorder
	also de la constante de la con

 Explaination acc. to nutritional status:
Over nutrition: - over nutrition is a form of malnutrition in which the intake of nutricut is oversupplied. - The amount of nutricut exceeds the amount required for normal growth, development 4 metabolisum. - over nutrition can develop into obesity. which increase the risk of serious health anditions.
ex. Diabetes, Hyper tension etc <u>Cause</u> : - Lipid > Peotein , Carbohydrates.
 - Under nutrition is the opposite of orcenutrition,
not eating enough food. - Undernutrition usually affects the balance of all the nutrients in our body.
en. Marasums, kwashiorkar
couse: Zinc, Iodine, vitamins, calciums etc.
ex. Marasums, kwashiorkar

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		Mcg.	Date: / /
1)	F	Food is thus prevented foom espoiling b	secourse there is
٧	#	Parteurization means heating food to temperature for some time rapid cooling.	a certain ne followed by
٠.	1	Measure of the sharpness of the called Roundness.	solid material is
	4)	Apperence of a violet colour indice protein in the food item.	etes presence of
	5>	long form = ICO5 = Integrated chile services.	Development
0-		cheese are semi perishable type o	
	7)	packing.	hored in <u>Vacuum</u>
	8)	> Weite the suggested book name a	ith weither
	v		
	_		

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	(و_	Diet :- It is the amount of food taken by a person
	10>	Balanus diet: - A diet untaining all the nutrients & other components in people peopletion is called balanus diet.
-		Malnuteition: If a person does not get adequate
	12)	Give any angenational programmes.
		,
6		
_		