

Day
Poly-unsaturated fatty accols
Omega - 3 and amon a latter and
Canals and omega-6 fatty acids
Senals, grewer, news, santowen, serane
products It vaives cholybol level.
• Inglycanides (good tals) are
reserve source of energy they proclear
Nitaming (A,D,Efe) fat coluble vitamin. Thuse vitamins prevents the vacholy
from Spreading into body, released
by hydrogenation of fatty acids.
. It regulates prostaglandins and
Steroid hormony velease.
. They maintain proper culcular
functioning and coordinate the brain
tunctioning.
B- give tive uses of Each of the
1-st(coming: 3.5/5
Vitamin B complex: They are fat
Soluble vitamins. They can be
vitanin B9, B1 / B2, B3, B5, B4, B2

· vitamin Bi (Thymin), B, (Riboflavia) By (Neacen), By (pentalliene and) B6 (pyridoxin), B9 (Violin), B12(tolic acid) etc. · Vitamin's are essential to the mormel functioning of body. · B9 (Biotin) prevents from aging Prevents antitree vadides proun of aging in Shell Essential for the vegeneration of Shin. · Foxe axt (xxx/it is a complex of Substances west regulate hormanal functioning It is essential for lactaly Women. · Vitancia B, (Beni Beri weakened heart, herve and Muxle degeneration, pain and swelling · Br for Eye irritation, inflammation and breakdown of their cells. · B3: Pelagra (The 30's, Dermolitis, Ohyrhoa, Dementia) Vitamin E: It inhibit lipid peroxidation. It prevents free radicles generated. from upids breakdown from entering

into cers. It helps membrane in permeability of selective components. Vitamin D: V It prevents we ostcomy bysis of vitamin D can be get through food or from sun. It is essential to we mornial functioning of bones Ivon: Evon is a necessary component of blood cells formation. Hemoglobin cannot Synthesize blood cells wetwork From From cettaches as veceptor on hemodolin Cell, Along with magnesium as an essential comportent form blood modecules. Moreover, it prevents blood from cloting with the trelp and meat is the rich source of From However, it is also available in mashet in the form of Ivon Supplements

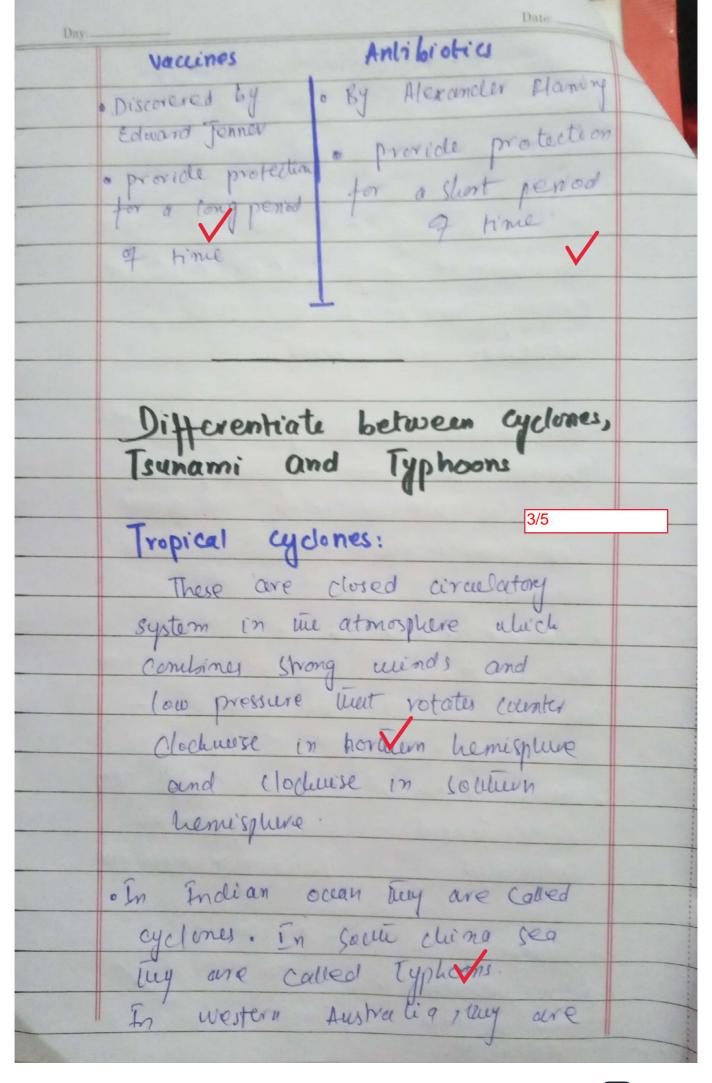
	Date:
	What is food adultration?
2/	Food adulteration is the contamination -
7	of food caused by harmful or
	deletarious mixing of substance
	into tood or the removal of 3.5
	essential components from food.
	Types of tood Adulteration:
0	Poisonous and Deleterious substances -
②	Fille and foreign matter -
3	Economic Adulteration: Food is
	adulterated by removal of valuable -
	Constituents. For Instance, water is -
	added in meat to increase its -
	Volume and weight similarly, olive -
	oil is diluted with tea tree oil.
#	Microbial contamination: Presence 7
	'Salmonella' in the / tood.
3	Intentional Adulteration: Addition q
	washing Soda and Chalk in Sugar -
	to increase its quantity :
6	Incidental Contamination: Presence 7
	pesticides veridues, tim from can,
	micro-plastics from plastic cons,
	dropping of rodenls and larvae in food.

	Date
Day —	Ch. de
	Effects: Strented growlin of children: Paliston
0	is second briggest milk consumer
	is second ingges
	Country after Ireland. However,
	by WHO, more tran so per cent
	children of palistan has stunted
	growth Per capita yearly consumption of
	Palistan is 117 litre milk. 124 is
	of Ireland.
<u> </u>	2 man Contravianted tood
	Causes Diseases: Contaminated food
	Cause liver, kidney and lungs
	disorders. Due vo intaminated tood
	and Beverages Hepatitis A has
	spread to the half of the population
	of policistan. Kidney damage and industries is the common event.
	dy was a we common ever
	C-1bins
_	Solution: Prince Lood nultimity must play
	Punjab tood authority must play
	its part on laincling crack down
	on food criminal.
-	Polistan has devolved the investition
(2)	Polistan has devolved the jurisdiction of food and health to the
	of food and when we me

	Date:
provinces. with the die	
every province is v	"
its our department	nt of food.
There is a need a	
by grate and pro	vines on lus
matter.	
Explain Five to	od purification
methods:	4/5
'Food preservation	is any q
the method by	which food
is preserved from	
attales or other	and classifical
Offer harvesting	
· Presenatives are	
substances that pre	vent spriary,
browning, discoloration	n, termentation
apprearance of too	d. It prevents
texture of tood a	s well.
There are following	melliods 4
food preservation	

1 Freezing: Freezing is one of air most common methods of food preservation. when food is preged, water in the food is treezed as a result mi crobial activities dependent on avoidabity of water (8000) Stops @ Acids & Microbs are sensitive to acids when acids are ædded buy halt their activity in a chain like process. 3 Sugar and salt mean are preserved by plaune were in salts. Sugar syrups are used for truits By removing water from food. It Can be preserved by drying. 0 Confit: neat is preserved by salting it. Cooking it at loo or in some find 9 fat and men preserving it. This method was common in Europe before refregerators.

	^ .	Date:a
	Question	
		3/5
4	Define vaccine	and auntibiotics:
	7	
	vaccines are given	to create veristance
	in human body	to specific disease
	Cauring microorg	a vims such as
	bacteria and vi	ruses".
	Anti-biolics : Ant	i (Against) bios (life)
	"Antiotics are du	emical compounds
		inhibit lue groculi
	of microorgan	isms".
	Vaccine	
	· Contain an eigent	· Killed micro-
	wat besembles no	organisms: medicing
	disease couring	Wat kill micro-
	muicro-organism	organisms
	· Types & Attenuated,	o pencillin, lepholospony
	killed, Toxold,	Anvinogly cosides,
	Conjugated V	Tetrocyclin, macrolides _
	o Given as a	o prescribed by
	prior preporation in	doctor ofter disease
	order to make	
	antibodies -	



Called willy willies In East and west of UsA, mey are called Humicanes " Tropical cycloner originate over ocean in tropical area) and coostal regions" warm air outflow subside warmair vates - wourm most air rising all large 0/000 pressure Cyc wall ocean water · Air cools become dense and more upwards. It intensified one storm by increasing the diameter of the storm TSUNAMI : · TSunami is a Japanese word meaning 'harbour wave'. Ruse are abnormal

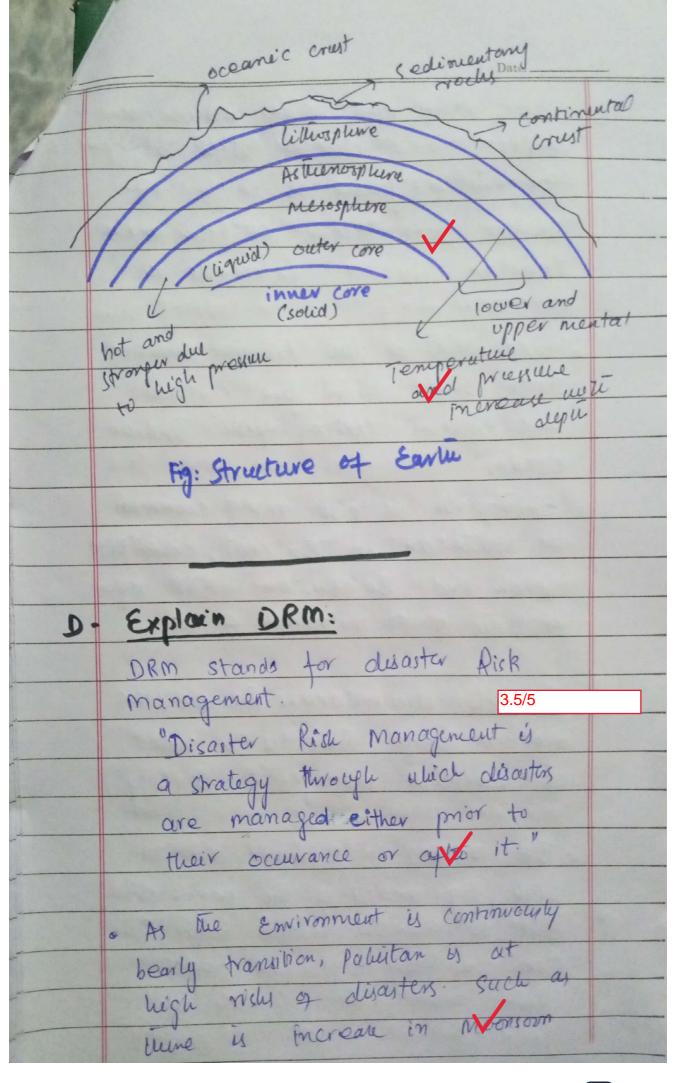
See waves caused by rapid displacement of body of water. Tsunami can be generated by underground, Encloses carinquale, Landshick, velcanic and Asteroid crash. If causes displacement of giganic water mayer, the see bed must be lifted or loweved. The distance between one wave. Onust to next wave crust (100 and 300 km) disperentiate the townsmi from mormal waves. Effects of Cyclones, Tsunami and Typhones: O shipwreks can be lift oshore course pollytion. Animo's woshed of to shore and died. B crops damaged as the land gets flooded near the shore indirections buildings.	Day	Date
Tsunami can be generated by underground, Enclosed earliquelle, Landslick, volcanic and Asteroid crash. It causes displacement of gigantic water masses, the sea bed must be lifted as lowered. The distance between one wave Crust to next wave crust (no and sookm) differentiate the tourant from normal waves. Effects of Cyclones, Tsunami and Typhones: O shipwels can be lift oshere cause pollution G Animal, washed of to shore and died. B crops clamaged as the land		sea waves caused by rapid
underground, Enclosed earlinguolie, landslicle, volcanic and Asteroid crash It causes displacement q gigantic water mayor, the see bed must be lifted or loweved. The distance between one wave Crust to next wave crust (100 and Sookm) differentiate the tsuname from normal waves. Effects of Cyclones, Tsunami and Typhones: O shipwreks can be left oslore couse pollution Animals washed of to shore and died. B crops clamaged as the land		displacement of body of march
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gigantic water masser, the sea bed must be lifted or lowered. The distance between one wave Court to next wave crest (seo and 300 km) differentiate the townsmi from normal waves. Effects of Cyclones, Tounami and Typhones: O shipureks can be lift ashere court pollytion Animals washed of to shore and died. & crops damaged as the land		landsticle, volcanic and Asteroid
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O shipwreks can be left ashere course pollytion Animal, washed of to shore and died. B crops damaged as the land		from normal waves.
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B crops damaged as the land		Typhones:
B crops damaged as the land		
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died. B crops damaged as the land		
& crops damaged as the land	6	The state of the s
	0	
Some people might left be trapped	(3)	
one people buildings.		ger of might left be trapped
	(6)	ander buildings.

Economic electines are luge. In 200 ft, Indian ocean Earliquelia Causes townome, it was the must lethet ever to have recorded. - 230,000 Deallis in 14 countries. Son lanks, India and Trylland. Sunda strait (Indonesia) 2018 C- Write a short note on Galary. Galaxy is a gravitationally bound cystem at stars, steller vennants, intersteller gas, dust and dark matter 3.5/5 Black hole: Any substance which interact via gravity with viable matter. Black hole has huge gravitational force. It attracts moleules inside it Not even light Can escape 11s graxp.		
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light Can escape i'ts grasp. Miley Way: large spiral system		gravitational force. It aways
Maley Way: large spiral system		hight can escape its grasp.
Maley Way: large spiral system		
in a constal hundred		· Maley Way: large spiral system
consisting of several value		Lina a Cournal humanea
mousand stars one q alich is the		thousand stars one q alver

for shock awasai , Accretion Dish super marrine block hole Fig: Spiral Galaxy Super nova: A powerful and luminous explosion of a star. A star meet because of catastrophic explosion Nebulla: Solar system is formed out 9 9 huge should 9 gas and obust called Nelsula Solar System 1 Sum 3 Dward planets 2 planet 5 Asteroids \ 5 Meteorides Comets 8 our objects Sun is the biggest object in

our solar system commisting of Planets: mercury, venus, Earli, Mans, Typitor, Saturn, Grany, Neptune Inner planets: Closest to the sun, small, made up of rocks, terrestrial planet, high density, weak magnetic force,
They are mercury, venue, Earlie, mains. Outer planets: For from sun, large mass, gaseous, low denuty, strong magnetic ferce, many moons. They are jupitor, saturn, vrances, Neptono. Dwarf planets: It has not cleared we neighbouhood around its orbits e.g. pluto, ceres small sized, less gravitational pull Satellites: They are moons It is a body in spare west orbits around su largest body in

Asteroids and meteoroids: our solar system. largest mon-planetary and nonlunar objects in the solar system Los meter in diameter. Ets diameter is 980 km. meteoroids. A small body traveling though space originates from convers and asteroids. Comets: It is a celestial body west orbits around the sun. It is made up of tail of gaseous Components. Earlie: It is the fifty largest planet in our solar system, siggest of all planets only planet where life exist. o Chamberlin Moulton hypolienis · Steady state moones.



Day:	
voins, more and more glacien as	ne l
melting and que to lugh atmo	spline
temperature viene is high off	
season precipitation. All this man	he
Partition Linkly was book also to	
Polistan highly værnerable to	
	n
reanwhile, on the Arabian sea, i	
Sindh shore, There are cyclones	
and typhoens coming from India	<i>(1)</i>
Oceans.	
· Eartiqualie is also most commo	
in Palistan in Balakot, karal	
Sindh and Balochistan FATA re	V
is me most vulnerable q it.	
V	
· In such circumstances, we discute	n
are on verge, Ture is a need	
of effective management strates	y.
o In 2023, in Karhnir, due to	
high tog many of the people of	ied
high tog many of the people of due to gaseous release from the cons as they stuck in tog.	eiv
cons as They stuck in tog.	

4	Incorporation of satellites in disaster
(6)	Incorporation of soidy determining
	prone area for priorly determining
	the intensity of floods, cyclones
	is also a significant step.
_	
7	For overcoming flood in Country, There
	is a need to build dams there is
	a need of genetically modified
	Crops. For Instance, Pakistan has
	imported Eucalyptus from Japan. It is
	a plant that absorbs large amount
	of water and filter harriful substances
	from The roots of other plants to
	help them grow well.
(g)	There must be separate state
	machinery for disaster management.
	For Instance, helicopters and drilling
	machies must be separate from
	the normal osage madines.
1	one morney of age made
2	The must be incorrecte because to
9	There must be separate hospitais
	for disaster prone people meanulole, trure must be shelter and
	fure must be shelter and food facilities at its disposal.

	Date:
	There must be some special strategies for women as truey are the most
	for women as they are the most
	vulnerable sections of society children
	must also be protected from after
	effects of disasters such as malmutrition.
7	