	To be a lowing in a double circulation.	10 (2
Q. 4. (a) (b) (c)	What is the sequence of strata of atmosphere and on what factors does it depends?  Describe water cycle and briefly explain the major processes involved in water cycle?  What is the Difference between asthenosphere and lithosphere? Explain various components of lithosphere.	(5) (5) (5)
(d)	Differentiate between food contaminants and food adulterants.	(5)(2
Q. 5. (a)	Define the term "malnutrition" Flahorate its major causes and consequences.	(5)



(a) Sequence of Strata of Atmosphere and Depending Factors «Atmosphere is the blanket of gases surrounding the Earth and enables the life to sustain. → Sequence of Strata of cAtmosphere Following are the strata tonstituting the atmosphere from bottom to top; 1-/roposphere It is the outermost sphere or layer of the atmosphere and the weather formation takes place in it. ii-Stratosphere It is the second layer of almosphere and it houses the ozone layer iii - Theomosphere It is the third layer of atmosphere In this layer, temperature increases with distance.

iv- Ionosphere It is the last layer of the atmosphere and it constitutes the last bordering layer of atmosphere. It separates atmosphere from the outer space-exosphere. \* Exosphere iv. Ionos here Thermosphere 3. Stratosphere - Troposphere Discuss separately that on what factors this partition or existence depends on (b) Water Cycle and Major Processes Involved in Water Cycle 1-Water Cycle Natural cyclic processes responsible for exchange of water among bydrosphere, atmosphere and biosphere is called as water cycle. water cycle is natural water tittration phenomenon. It helps in

temperature variation and wind circulation 7 Clouds Condensation Precipitation Sublimation Snow Transpiriation Surface Water Gu Groundwater Surface water J Hydrosphere Glacier and Goundwater J Hydrosphere Plants -> Bigsphere Clouds -> Atmosphere Hydrosphere Biosphere Atmosphere Sketch of Water Cycle 2- Major Processes Involved in Water Cycle i- Evaporation The transformation of water on the Earth's surface to vapours due to heat provided by the sunlight is called

A	as evaporation	
1	11- Sublimation	
	The direct convexsion of glacial mass	
	int unpare is eatherd sublimation	
	into vapors is called sublimation  iii - Transpiration	
	The selease of vapors from the plant's body	
	due to heat is called as transpiration	
	iv- Condensation	
	The conversion of water vapors into	
	water droplets due to fall in temperature	
	is ealled as condensation. It sesults in clouds	
	v- Becilitation	
	The conversion of clouds into eithers snow	
6	and sainfall depending upon temperature is	
	called as precipitation	
(d	Difference between food Contamin-	
	ants and food Adulterants	
	1-Food Contaminants	
	The detrimantal substances which	
	deteriorate the quality of food on	
	additition making it surhealthy are	
	called as good contaminants.	
	food contaminants can be	
		A Sugar Sugar

living substance like microbes or non-living substance carrying the germs. They are generally added to food due to carelessness or unhygienic conditions. Discuss the differences in tabular form and add multiple arguments 2-Food Adulterants The substances added intentionally or anintentionally to food to either increase quartity rake attractive or aeteriorate their quality are called as food adulterants food adulterants are added to the food substance for economic purposes generally. They either change color, flavor, taste or increase the quartity of food.