Paper presentation is good. Elaborate flow charts don't rely fart-I only on charts. Section -1 Explain headings in a line or Ontent Wo. Lipids . What are some major types? what are this functions istakes in Lipids : Fally compounds performs variety goes in out of what and functions , ma lipets. It is one are alled cells. human celes. Also. esential pas mist A misture of fatty acids and alcohols (glycerol and sterois) are lipids." . Types a lipids: Majory there are two types of lipits as: Derived lipids lompaind lipids Types Cholestrol Phospolipids is considered helps in as 0 overall hamfell mangemeil lipid Jcell.

iii Functions of lipids: lipids helps in high lipids helps Carcie vasuelas leads to ingrowth issus high Poolla. absorbs vitanins Baluce energy twice than any Protein. Q#2(b) Enlist jew measures for energy onservation and its sustainable use Energy Conservation: Energy conservation means using less energy by acylisting your behavious and hasits- there is a difference between energy efficiency and energy conservations the first involves using technology that requires less energy to perform scine functor. "The process of concerving energy is called Energy Concervation"

" Measures for energy conservation: 1) Conservation of Energy in Industrial Second States Sector : -> Prevent energy leakages. > Use energy Savers. -> Devise enorgy consorvation plans. Conduct audits (energy) by 39d party. ii) Conservation of Energy in Transport Sector: -> Vehicle tuning to secture fuel consumption > Switch of engines during traffic signals. > Use autalytic converters in cas. as poling wherever possible Conservation of Energy in Domestic iiis Sector: -> Switch off unnecessary lights. -> energy savers insteads of conventional bulbs -> electrical applicances of good quality. -> admating and awaring people.

Q#2 (c) What is hychogen bonding > Give elaborating structures as example. 1. Hydrogen Bond: interamolecular bund iAn pormed between hydrogen atom of one molecule and " the most electronege electronegative atom " g another molecule - Also electronegativity is the capcily of an atom to attract the shared pair of electrons towards strelf. Hence, An intercannealar bund between hydrogen and other notecule having the most electronegative atom is called hydrogen bond. Thus, formation of bund the process is called hydroger bonding " U. Example: H20 -120 elluskation explaination: ongen has more electronge form bund with hydrogen-This and thus would be partial negative, particul positive. As it is not 50-50 sharing in hydrogen hand

()#3 (a) Explain and draw the structure of the sun. 1. The Sun: Sauch The sun lies at the heart of the solar System, where it is by far the largest object holding 99.81. of solar system's mais and is roughly 108 times the decimeter of earth. About 1 million earths can fit into it. Also, it procluces energy married. commonly as solar the renewasle energy? The Sun's Structure: 11. cone radioactive 2me convenction zone photo sphere chromosphere Corma. - Anatony of the sur. Enploination: is The surface of the sur is called photosphere and it is what we see with narced eyes. 11) Core is the hoffest port of the sun clier to nuclear reactions happening there il-nuclear fission and fusion. 11) Chromosphere is the part of sun visible only at taka solar eclipses.

Q#3(b) What is Tsunami? How is it generated? Give feu examples à recent touranis. 1. TSunami: An asnoonal sea wave causing (atcustophic damage when it hits a wastal line is called Tsupami - It can be Caused and generated by multiple factors. Those factors contribute and form a tsurani. Also, Tsurant can be defined as: Tsunane is a series of waves caused by displacement q waters mainly ocean Those waves can be known, as harbour waves. So 99 harbour waver from tsunamis. 11. Generation & Tsunami: caused by undersea courthquares. -caused by undersea landslides Tsunami - whenever occur floor is lifted. waves entering shallow coastal water. also can be generated by underson volcances.

111. Recent Tsunami: -) Turkey ,2023 Section -II Q#6 (d) Identify the missing (1) 5-6,9,14,21, 5,61 5,6,9,14,21,30 Q#8(5) while at the dog park, Veena ran 48ft east then turned and have 20ft north to reach water started. If running straight 20 Veena gun auto east => 48 ft vector to north => 20 ft. If she had started gunning straight east thath 48-1-20 => 68 11 =) Veena would're run => 68 ft