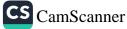
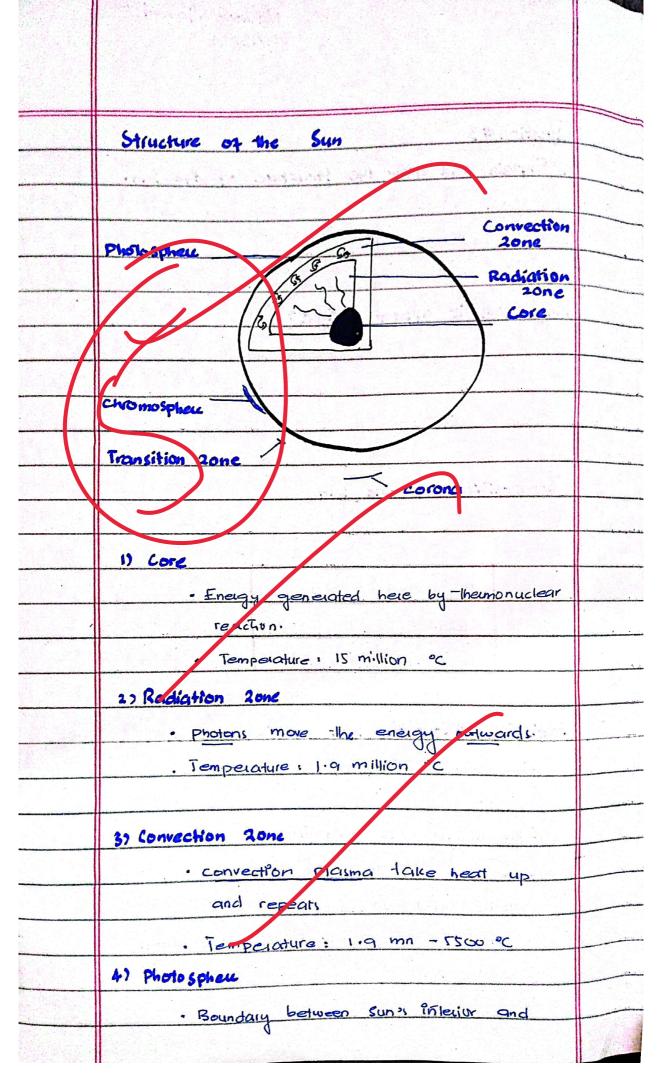
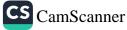
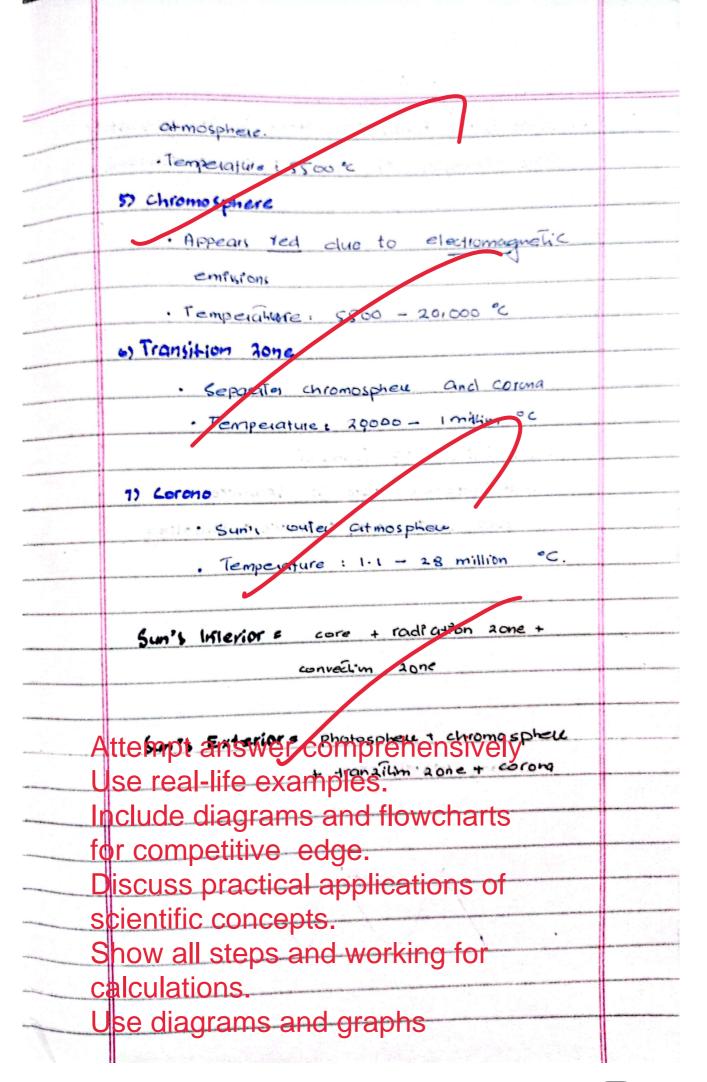
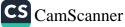
Mahnoor Mirwani 19/12/24 Lavestion # 3 a) Explain and draw the Structure of the Sun. The sun is a huge ball of gas A helium and hydrogen. Why does it appear bright? The Sun appear bright due to the nuclear Fusion which releases huge amount of energy Jiving 077 9TS own light Lomposition of the sun The sun is made up of. Hydrogen 74% 24% Helium Heavy Melals 2% Statistics About the Sun . The Sun is a star 107 1.99 x1030 kg mass . The diameter is 1.39 million . The Sur rays reach The early in 8 minutes and 20 seconds. . The Sun is 330,000 times the mass

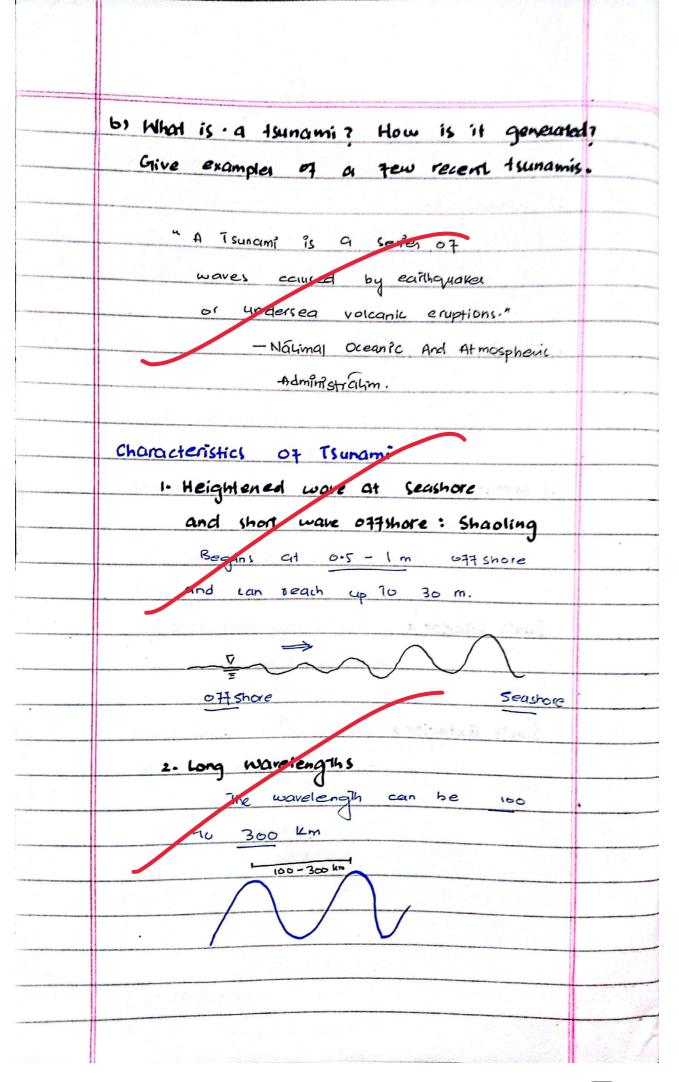














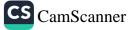
3. Required Magnitude of earth quake An earth wake of at least 7.0 on richer scale causes typami. 4. What part causes destruction? · 17 the trough reaches first, it will be pulled back. · 17 the crest reacher first, Isunami is caused. 77777 pulled back Land tsunam 3. Δ 77777 Land HOW IS TSUNAMI GENERATED 1. Underlying courses · Earthquake · voicanic eruptim · Subamarine Landslipe . on shore Landslide 2. Generation of ripples - Begth 077shole at 0.5-1m.



Increase in height as it approaches Land - Shaoling Earth quake / volcanic Eruption disturbance in water 3. Formálim of Tsunami waves The waves the rease to the height of a trunami on Early and Destruction 4. Landing Destruction 1111 → Tsynami RECENT TSUNAMI Tsunamis cire very roire in the ring of fire where there tare Trequent earlyquakes and water · Tsunami in Japan: January 2014 ci7lei an earthqualce. 2023 - New Zealand + sunami atter 7.7 eothquake. · worst in recent history: 2004 Indian Ocean Tsunami. after a 9.0 carlhyuake. 300,000 + people died.



C. Discuss Environmental pollution. What could be its harmqul equects? Give a tew measures -10 curb it. Environmental pollulim is an toreign element in environment which is potentially harmon MAJOR ENVIRONMENTAL POLLUTION The major types of pollution that harm The environment are: 1. Air pollution · loxic or harmony gase and particles are mixed with air · Examples of polly-funit: Carbon di oxide, carbon monoexide. 2. Water pollution · Wala pollubin is the result of Pokytants dramed in water. Pollutants include: 107 industrial waster, guibade of houses. 3. Land pollution · The dumping of pollutants in - the Land.



HARMFUL EFFECTS Each pollution and then pollutant has it's awa distinct ogged. 1. The Harmity Etteds of Air pollution · Reduction of crygen-carrying capacity in blood due to carbon monoride. Photochemical smug due to nitrogen dioxide. · Actd rain due to sulphur di oxide. · carcino good effect due to particulate matters. (Pm 10 and pm 2.5) 2. The Harmzull Effects of Water pollution · pathogens in water cause diseases. . Acids and alkali in water will or haim marine lige. · Heavy metals cause damage to human health. 3. Harmaul Eggects of Land Pollution - Attracts petts and other allecule causing organisms. · Release havingul equies that are baimqui · byrades the underlying Land



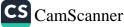
MITIGATION OF ENVIRONMENT These can be mitigated swith relevant actions : 1. Mecisives to carb Air Pollution the policies can be curled by: · using public transport or using personal wehicles less often. · Using tenewable energy instead of fossil fuels. · using fillers in industrial cents. 2. Measures to curb hand pollution · Not dumping waite in open surjaces Landfilling or incineraling the waste. separating different. Types of waster. stillstol 3. Measures 10 curb poaler pollution · Release only on much waste (Liczuid) that water can oxideze. Discard other washe aliteratly · Clean the existing polluted water bodies.



d. What. is wireless network ? Briefly discuss the working of satellite. Whieless communication Ps the transmission of Information over a distance without the help of wires, cables any other electrical conductor. CLOSE Wireless communication · A zew melers . Tu remote 1111 12 300 A CALL COM Distant Wireken Communication · Over thousands of kilometers · Radio communication. TYPES OF COMMUNICATION satellite All ground the work. · Receives an information, transfer to downlink. Inflared . Has a Longue wavelength. Then ted light . TV remote , Security control.



Radio - Radio waves have varying Frequency signal Broadcast of radio, TV Microwave a satellite for wirelen communication. · U' . radur, remole consing 9.1 Wi-Fi · uses radio signalis antennas router. · connects electronic devices. Mobile · connects meri across a single frequency band. Bluetooth transfeur dala across various various devices. · cell phonen, eurphonen, mouse. WORKING OF A SATELLITE by receiving A satellite works data from a uplink sont tom The early and sends it buck to downlink on early.



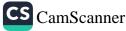
0 satellite - radio wavel -Uplink DownLink Earth Question # 04: as What is hepatitis? Explain its causes, symptoms and prevention. Hepähitis is The in- glammahim of The liver. due to viral infettion. Types of Hepatitis and Causer of Hepatitis - Ingestim of containinated water Hepatitis A - contact with blood or body fluid Hepathis B - Transtusim through brood or fluid Hepatisti c Helpatitii D - parentral blood or gluid Feco-oral transmission Hepotilii E



CLANKER OF HEPATELIK Stmedial -4 Symploms of Heputili They can be divided Philo Two Pharles 1. Initial Symptoms · muscle and point Pain · Jever Feeling sick , head och occassimally joundice. chronic hepalitis he 2. Symptoms 07 fred · unusually · depression · j'aundice general feeling of being unwell: Preventing Hepatitis It can be prevented medical equipment · suze mectims and HID NO. · vaccination succing of blood B ALL Sofac



6. Elaboratic a tew methods of food Q. Beach presewation. methods of good preservation Prolude: Freezing growth · Below 10°C millo organism slow down · Below -10° C , w multiplicatim. (Drying · Removes water from 2000 · Also removes cell water of microbranism · multiplication of micropreganisms Stop. Acidizying . Kills microurganisms. · citus aud Bucterial anture. Sugaring or Salting sugaar syrup or some brine. microbes Try 10 plasmolynis -The concentration, Thus die. balance Smoking method. · old

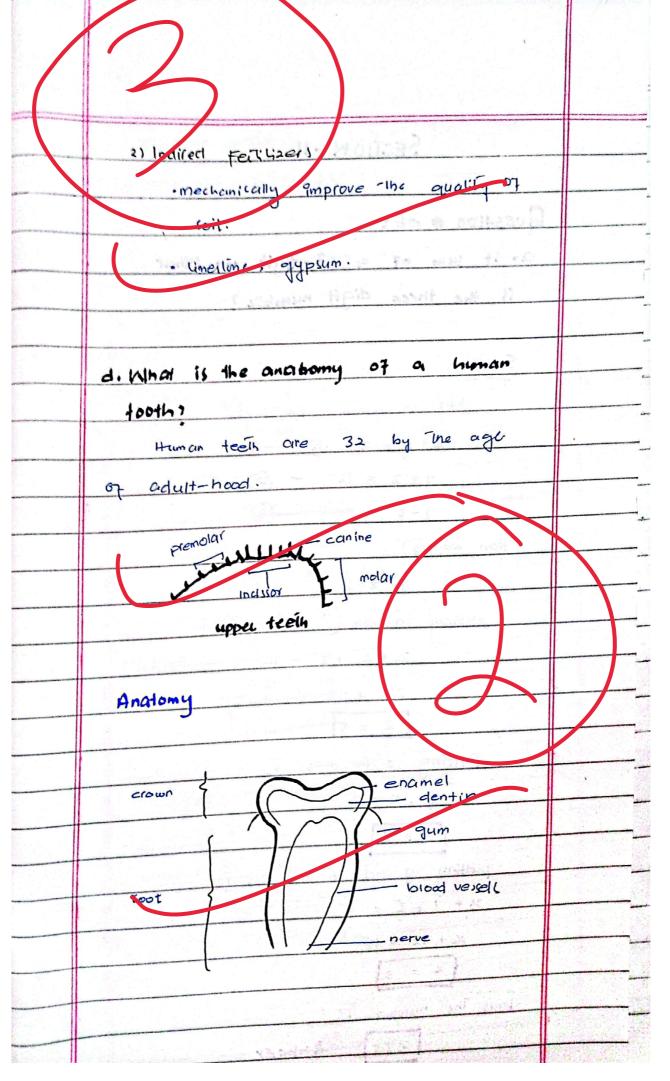


· Jormal debyde in Smoke Wills mussorganisms. Using chemical · only permitted men . Sor bic and inhibit mould m heese · Sodium benzoule toor drivius. Oxygen Control · creating abaerobic conditions · Icin The microbes waxing 3 skin-light films. Radiation · Inachuate enzymes responsible for vegetative spiciting . Will disease causing baching Ur light x-roy, microwaves.

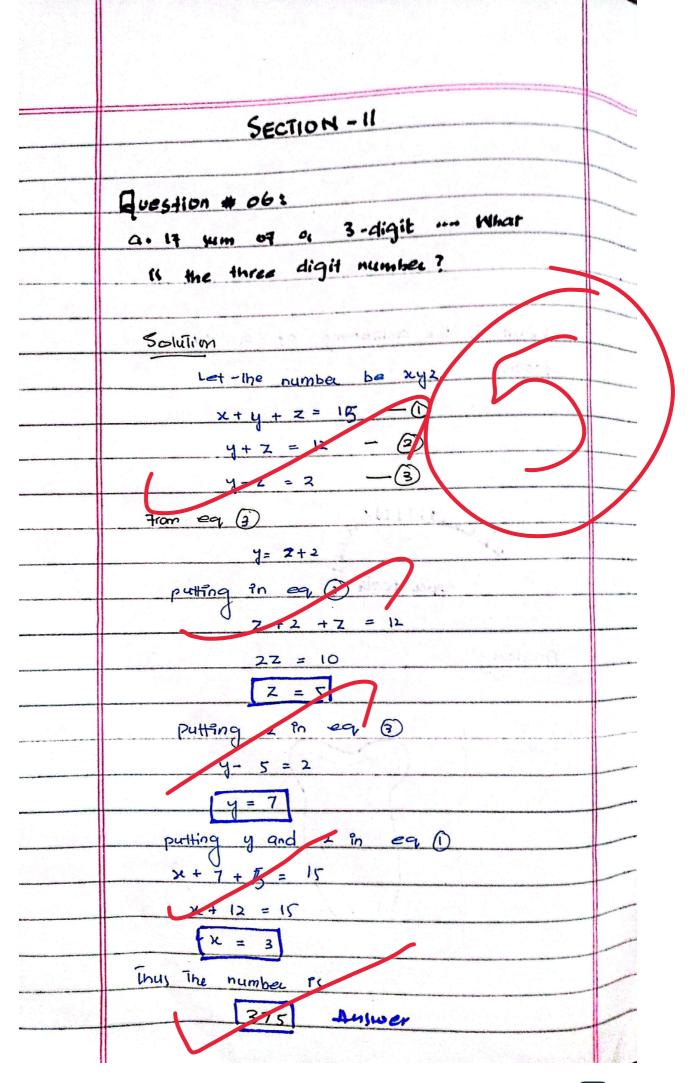


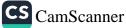
C. Explain Jettilizers, What are their types 7 They are inorganic mailerial of natural or synthetic origin added to soil To supply one a more nutrienti ellenticil to provin of plants. Types of fertilizers based of nutrient supplied 1) Nitro genous Feitilizers ·urea . ammonium sulphale 2) phosphatic fertilizers mathallas. They Provide : · single superphosphile . Triple super phos phote. 3) Polassic Feilizers Sulphate of potcish · muricite 07 polash Types of zertilizers based on mode of mode of operation 1) Direct Feiligias Assimilated by plany directly. Nitraie, superphophante



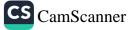


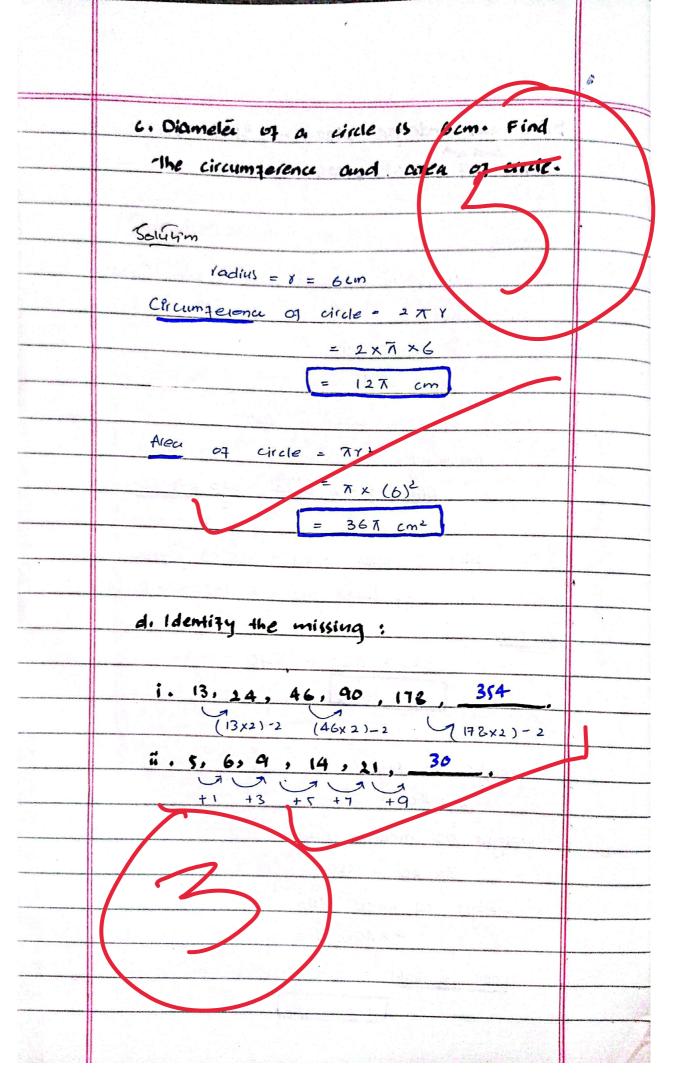


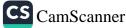




b. A man ordered pizza ... zind the price of total pizza, Solution Small pizza: medium pizza : Small pizza succe ratio: 2:3:4 Each slice = 40 g price of small pizza = 320 mecining Slice of one pissa = 320 = Rs 160 price 07 medium pizza = $160 \times 3 = R.430$ Lange pizza = 160 x 4 = R1 540 price of lotal price 540 320 + 430 + = RS 1340 weight of small 2 × 40 = 209 weight of medium pilla 3x 40 = 120g weight of large pizza 4 × 40 = 160 g Total weight = 20 + 120 + 160 = 360 9







Question # 7: as 10 and EQ 19 is the number to express the relative antelligence of a person. - Intelligence Guotien 7 10 - Menial Age chronological Age Emolimal Quotient is the emolimal ability 10 perceive, control and manage me emoline according 10 Situation EQ = wx 1Q where, w= wisdom b. What it the present Age of Aman -Bolution: current age = n 20 years later : x + 90 = 10(x - 10)2,+20 = 10K-100 10x - K = 20 + 100 91 = 120 x = 13, 3 years



