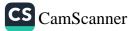


is pomped via Left tentricle to left Ventricle, and the via Semiluna, vilv, the Aarta Carines the sygenated blood back to the body. At can be described via Flowchart as: Superior & Inferior Vena Cavae J. (Deoxygenated blood) Right Atria 1 Tricuspid valve Right Ventricle J Semilunar value Pulmonary Arteries L Lungs Pulmonary Veins L Left Atria J Bi spid valve Left Ventricle J. Semilunar valve Aorta Oxygenated blood) Qno. 3. (b) Liver Liver is the largest internal organ of our body. It's left and night



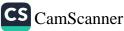
sides are separated by falcifam ligament. It's supplied by Hepatic arteries and drained by Hepatic and portal veins. 11-, Hepatic artem L', falciform ligament ---- Hepatic & portal vein -> Grall bladder It's triangular in chape, reddish brann in colour. It secretes bile which is stored in the gall bladder FUNCTIONS : breaks down Liver the haemoglobin which is A. the main component of red blood cells which carry oxygen to our body. Liver secretes bile which is had An. in the gall bladder bile is responsible for preaking da of pats. When good reach the intestine, gall bladder contracts and bile is scare released to the duodenum en



(via bile duct). Bile is composed of bile acids a salts. The inflammation of Liver is known Be as Hepatitis, which can be of 5 types A, B, C, D, E. Hep A & E spread by contamined water a pour Hep B LC are more of genous and spread via contaminate needles a blood. Hepatitis imptoms include Nausea, Vomiting, Jatique, joundice (Yellowing of sclera, tongue , skin) - Which occurs due to accumulation of bilirubin our body. Haemoglobin breaks dawn hilirubin and Jurther into Stercobilin and urobilinogen, which are releas I via Urine & Fraces. If they accomulate in body it's called jay dice which may occur due to her titis = 1200 Liver is also a mayor storage Site of fait soluble vitamins Vit A, D, E & K! It also removes toxic substances from our body. Qno. 3.(C) Green house Effects Due to accumulation of green house gases (CO1, 502



SO2-) in our environment, heat energy is trapped & unable to escape, which raises the temperature This is known as the green have Effect. Sunlight via heat energy can enter The Earth but is unable to escape Beneficial Benefits of Green house Effect. If there had been no green house gases, Earth's temp would ve been very law, -10 - - 15°C instead of the average 15°C. So, due to this, the temperature is warm and living being Chumans animals, plants) cable to unvive. Global Warming = Dung the tweinth century, due to new industries, the ensission of green house gases has increased a greeat deal. It has happened die to increased use of automobiles, réprigerators A.C.s etc. Thus due to increased gases, the temperature of Earth is averagely rising named than Usual.



Due to global Warming Polar ice caps are melting And water in rivers which leads to floods 3) The weather pattern is changed which leads to increase in rounfall in certain areas and decreased in others. 4) The increase in temperature leads to difficultics I people already ling in hot reas. The biordersity of certain is changed as well. 5) The ras Sun Green house COL 502, CH4/ + Energy is trapped Gno. 3. (d) Note Working OF GPS a) GIPS stands for Global Positioning System. It's a way of knowing Our longitude, lattitude, exen



speed and altitude of our place can be known. Working -It generally involves the us stellite -Control system and 24 artificial There are around Satelliter soitting in space, few more in icase of any problem. Whenver the user send signals to know the location, three satellites. work together to pinpoint the location (longitude & lattitude) of person via control system of the fourth satellite is Vit can even tell imvolved about the altitude of the person-Presificial B 0 --- satellites Earth Working Of Mobile Phone 6) Mobile phones are now used ter various purposes le. Communication (via texting Internet can be used , calls' CI GPS



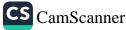
Calculator, Infortion, Can even pay money la Applications. Mobile phones monicate via radiowaves, they we de by US Defence forces St. comisists of software hardware Electronic board, enclosed in a Case made of Screen & buttons. Various type of application include 105, Andried, blackberry etc. Qno.5. b) Polio Polio spreads via polio vinus and it effects the nervous system couring disability Jerlife. It effects The legs, The person is unable to walk and in serverye cases, may even cause dealth. Symptoms: Fatigue fever Affects the movement of legs Respiratory Depression (in serve .



Causes of Spreading: At spreads via polio vinus, via contamined water, through Jeces. Prevention : The main Drevention is via Vaccine (oral & gnjectable) It's wild virus cannot survive long outside the human body, so it's completely preventable / can be eliminated from The world if people can get vaceinated completely. Only Afghanistan, Pakistan, Gaza have a few reparted cases -Bailing water, Using completely cooked food may play a part as well. Vaccine . It's a live attenuated vaccine Can be oral and gniestable. Al's given at 0,6,1,14 weeks in kids - Ala part of EPI stadude schedy of Pakistan The names are OP & IPY Sabin & Salk).



Qnc. 5.1d, Population Planning planning means limiting ) Population the kids , taking conholling adequate gap years to restare maternal health. Population Planning can be achieved by Awareness Physical barrier methods (condems) Anjectibles or Ansertion of Copper Intrauterine Device Emergency Conhaceptive pills. 4 Permanent Soutions include Jallopian tube ligation and Vasectomy Contraceptive pills containing estrogen and progestin. Benefits : It helps to aintain Maternal Health. In Pakistan, most women suffer from Malnumition and Gran deficiency America already it allows them to limit the rumber of children and Apres on requiring their health.

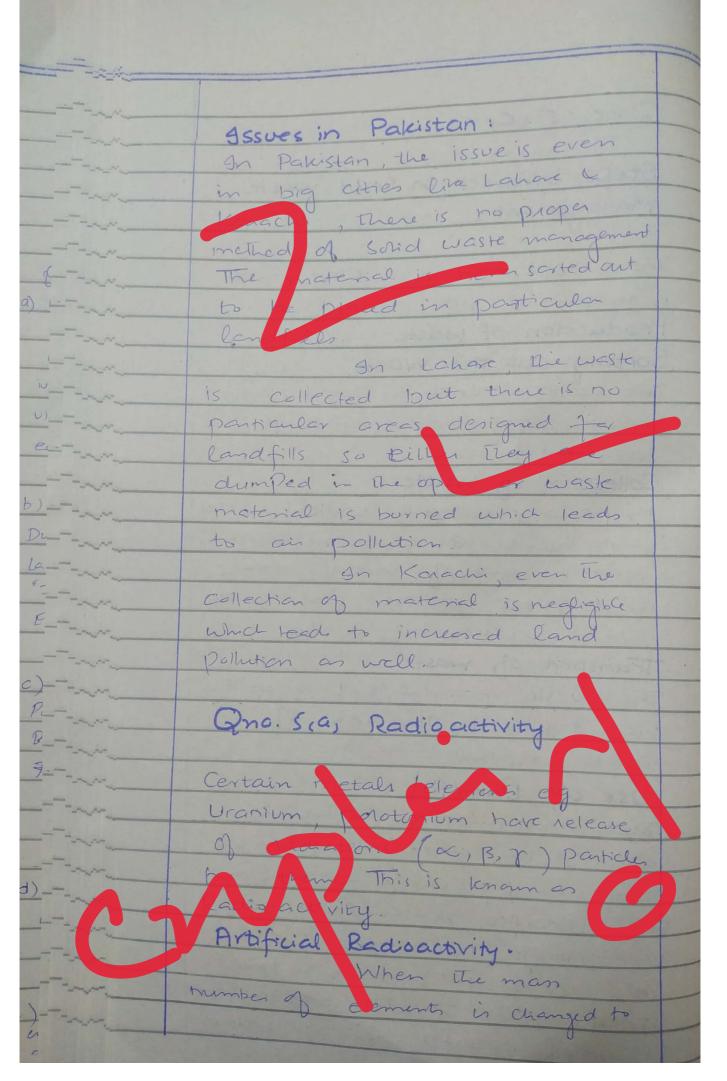


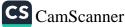
Limiting the number of kids improves their quality of life. Parents would be able to care about their education, health. It decreases the pressure on country's a environment resources. At reach to better gudity of life for the whole Nation In Pakistan aly due to religious reasons or lack of education pope weren't able to access the controlling methods which lead to population explosion ANOW Pakestan is the fift most poplans country The Ward. Due to each of anning in Urban infrastructure and energy and education sector even a basic need of 37.2/ people is not met. Steps should be taken to improve population planning so That the quality of life of the



Qno . 5. (C) Steps involved in social waste Management. The steps involved in solid waste management are Production of waste Sorting out the waste The waste material is sorted; paper plastic, glass, kitchen waste is Seperated Collection of Waste In primary collection, wask is c from houses - An Secondary Collection Waster material of several have is collected in are place, which is then taken by inch Transport of waste The master materia transported us trucker The areas of master dispude. Us A Landfills. The wasternaterial is later on dumped in landfills, which are rede in particular areas, lined with specific material to stop its reekage to ground water. Di's covered by soil & has specific tube to hansport melhane in care of decomposition via bactoria.

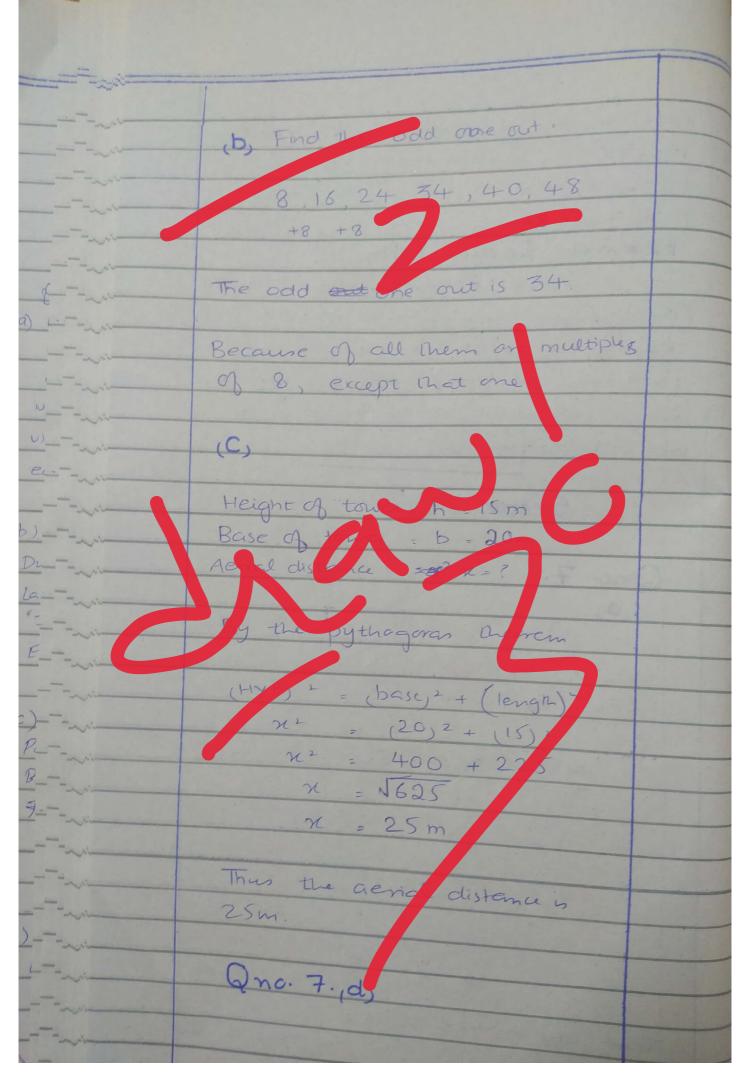


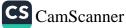




increase the radiations It's called Artificial Repeativity It can be used in experime is medical purposes, Natural Radioactivi Some elemen 5 and (name man a atomic nur cause radiations, thats ~be in negligible amaints and is not harmful Section - I Qno. 7. (0) Let the number be x The equation will be + 50 = 60 N 6 60-5 × = 1 X6 x = 60 Thus the number is 60.

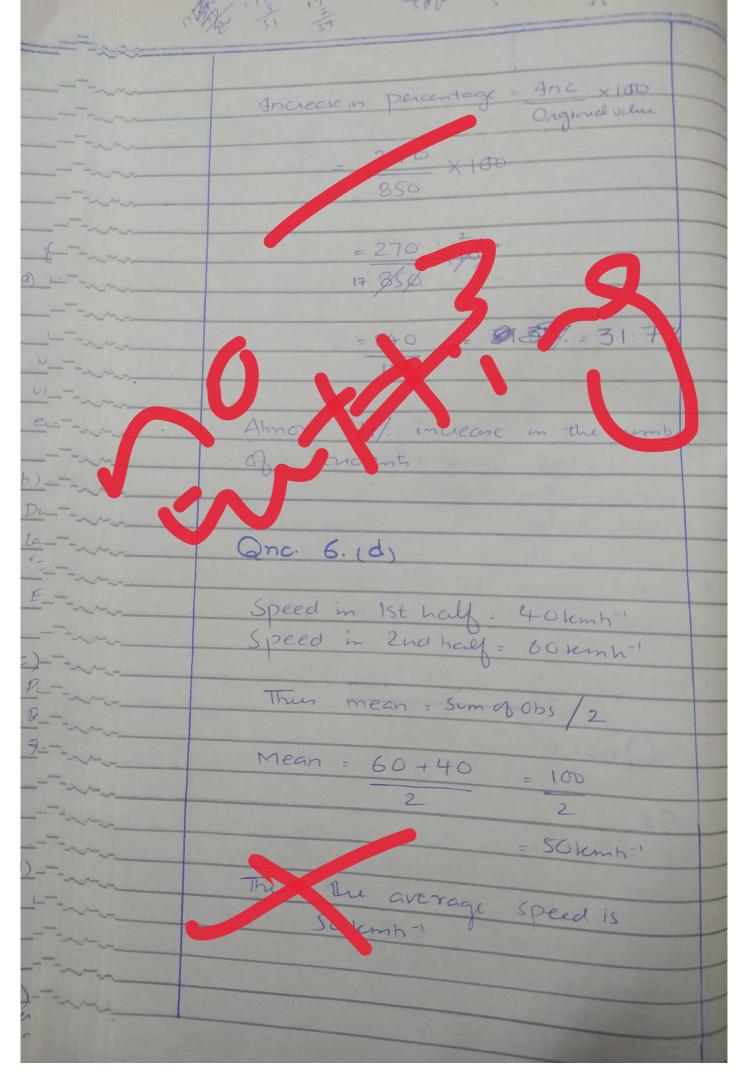


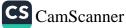




120× 400 Tarrif for odd daw x . Rolood Taniss 7 = even dates y = Rs 2000 Total Sum = 30,000 As y is double of x y = 2x x + 2x 30,000 - 14 - 30,000 x So, the Jan spent 10,000 on dates, thus spent 10 days on odd dates -And spent 10 days on en dates and spent 20,57 ks He stayed a total of 20 days Qnc. 6. a) Enrollment in Jan'22 = 850 pupils Envollment in Jan 23 = 1120 pupils Su. Anchease of pupils = 270 pupils 1+20 270







Qno. 6. (C) No of heads = 48 No of feet = 140 No. of hens = x = ? No of cows = y : ? The two famula would be x + y = 48 2x + 4y = 1402(x + 2y) = 140x+2y = 70 Substracting @ 3 24 = 70 x = 48 4 Y = 22 Thus there are hens: 48-22 = 26 hens

