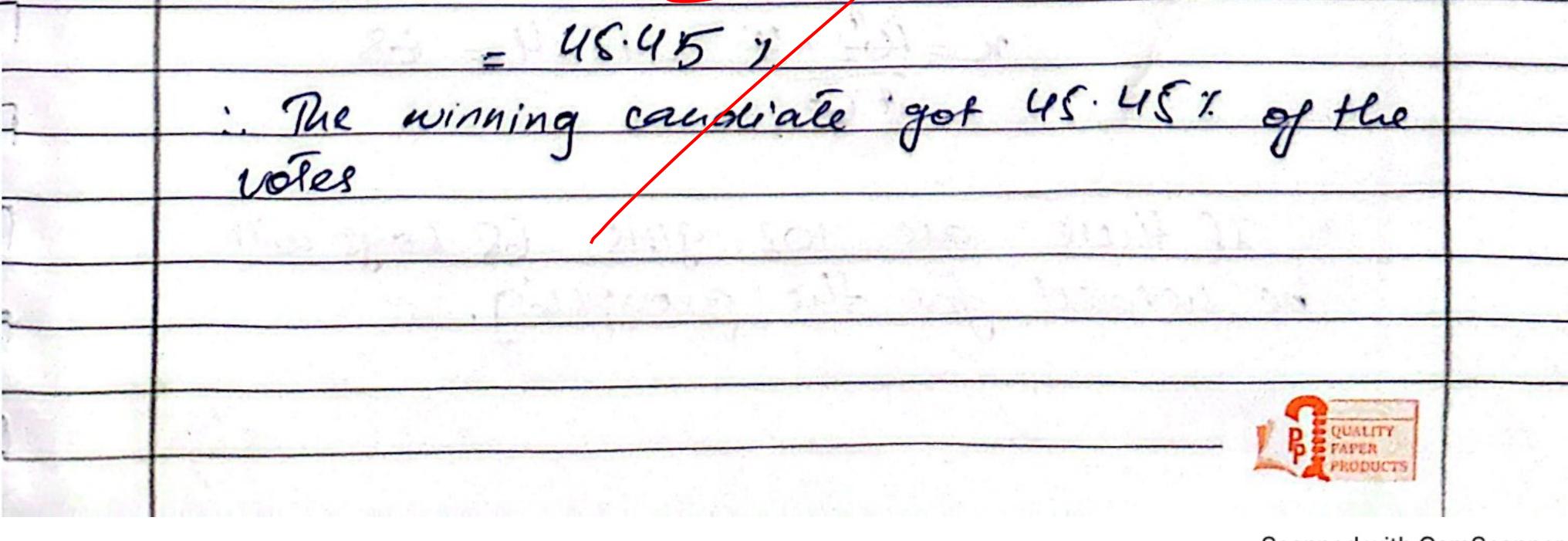
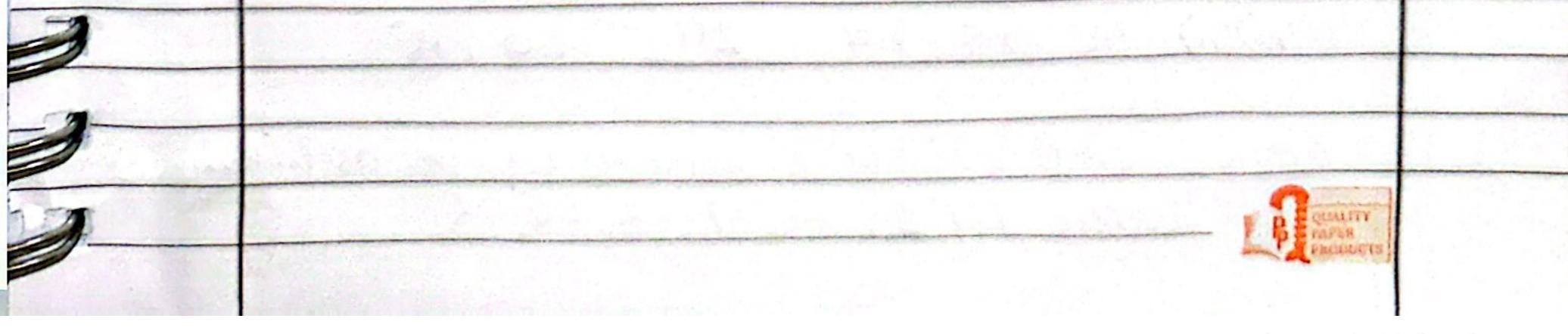
Batch 55 GISA Mock Section II Date\_\_\_\_20\_ V good Good for math work Good for theory Enough length **Enough headings** 5 12. C. S. C. O. 86 a Votes for first candidate = 15000 Votes for record candidate = 10000 Votes for third candidate = 8000 La First caudidate was Total voles of all candidates = 15000 +10000 +8000 = 33000 1310.150 7. of winning canolidate votes received x 100 Total votes 5000 x 100 33000 45.45 3351500 500 1321 33 180 65 KO 131 180 168 15

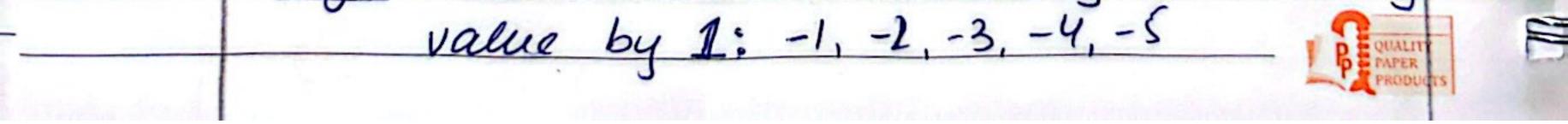


E E Date\_\_\_\_\_20. 6(6) E Sum of all angles ui a priangle = 180° Ratios of the angles = 3:4:5 Each angle =? 1 X +80 45 = 450 N.M 124 X (80 60 = 60° 4 \$ E 4 75° 5 × 180 3015 122 3:4:5 are 30°, 560° and 75° E sespectively. TT. 6(c) Boys weach group=4 F Guirls un each group=6 Boys required if 102 giels available = ? Boys : Griels E 6 H: 6 X × 102 6x = 102×4  $\chi = 6^{4} \chi q^{2}$ 11 = 17x4 = 6814 63 giels, 68 boys will . If there are 102 gibls, 68 be needed for the geouping 1 -E. QUALITY

Date\_\_\_\_ .20\_ 6(a)Ratio of present ages of A and B: 6:7 Ratio after 5 years = 7:8. Present ages of A and B? GX+9 778 FX+S THERE CONTRACTOR MARCE 48× +40 = 49×+35 T 5=2 30 = 30 615 I(S)=35 The present ages of A is 30, and B is 35. years. 1 - 10 CA HILL 12 12 13 Third according to the Conter 100 50 09 Let Shere College C.C. 1P Gainer 12 111 5 Cito? Sec. 2 -1 and a share and a state 

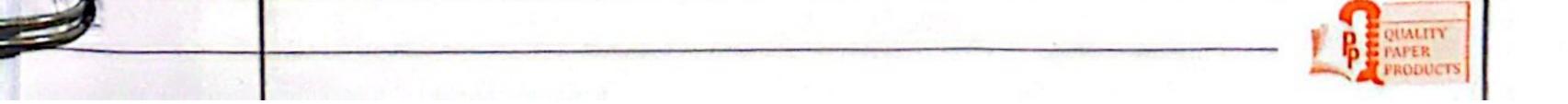


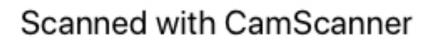
Ø 1 20 Date\_\_\_\_ E Q8. (a) sum of three consecutive odd numbers = 273 What are the 3 numbers =? H First number = 24+1 273 Second number - 74+3 Third muber = 24+5 664 E 2n+1+2n+3+2n+5=2736419= 273 6n = 273 - 964 = 264 n= 264 444 X = 44 First number = 44(2)+1 = 89 Second unber= 44(2)+3= 91 Third number = 44(2)+5=93 : The 3 consentive odd unubers are 89, 91 and 93. 8(6)(1) 4,16,36,64, 100,144 hogic: square of consecutive even menbees, 22, 42, 62, 82, 10°, 12° 8(6)(11) 30, 29, 27, 24, 20, 15 tiogic: each nomber is minused by an ascending



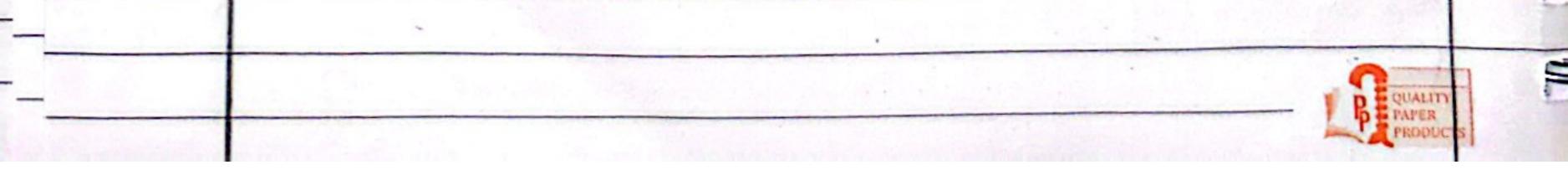


Date\_\_\_\_ 20\_ 8(H(iii) 1, 7, 15, 25, 37 R hogic : lack number is ladded by #2 started Jean the addition of 6 in the second mube: 6, 8, 10, 12, 14 -> order of additious 8(b(iv) 0, 2, 6, 12, 20, 30, 42 hogic: each sumberis added by 2 of the difference The differ ouseastie hogie: The difference between two numbers is added by 2 for the following mumber. Hence the difference niceeases by nultiples of 2. ; +2, +4, +6, +8, +10, +12 100 86(V) 48,24,72 35,108, 52 hogic: The even numbers are half of the nombre before and the an increasing serier of -1 follows: 48 = 24, 72 = 36-1 =35, 108 = 54 - 2 = 52



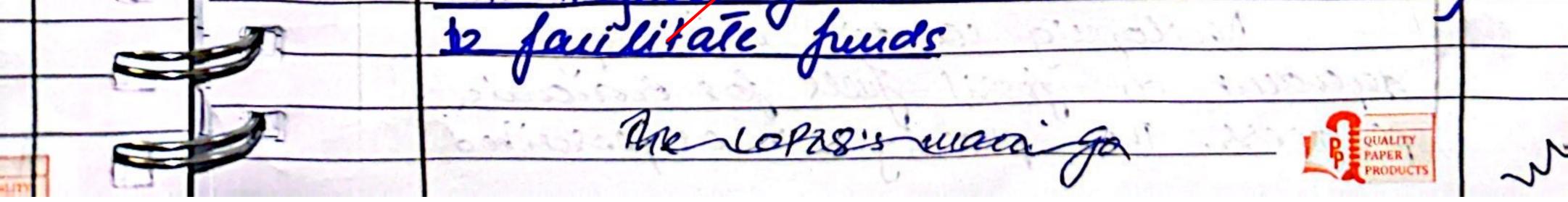


D 20\_ Date\_\_\_\_ 8(c) -(i) THRSI = SHIRT (ii) GINDREA = DANGIER (iii) SCHAMOT = STOMACH = (iv) ONLNDO = LONDON (V) HIODALY = HOLIDAY É 8(d & Sazah = x saeah's mother = 6 n Saeah's bedler = 22 In 3 years the sun of their ages = 72 x + 3 + 6x + 3 + 2x + 3 = 72 $q_{1} + q = 72$ u= 637 8 E K=T. 6K= 42 2K= 14 : saealis age is 7, saight beathers age is 14 years saight wolker's age is 42 H gears. 5

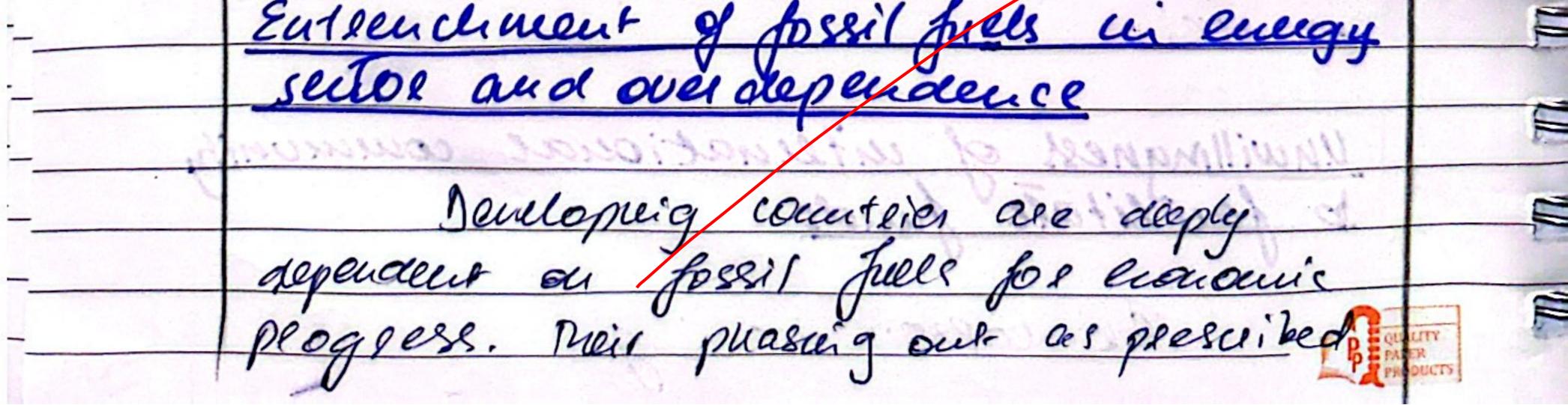




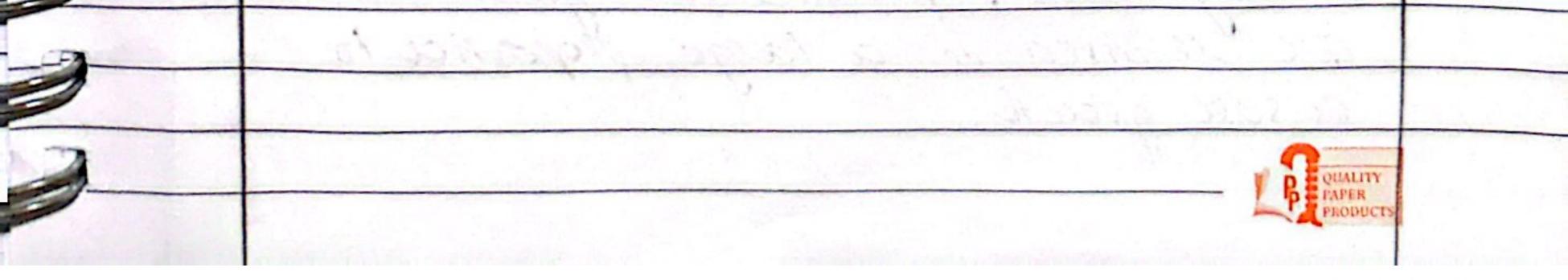
Date\_\_\_\_20\_\_ SECTIONI 930. 93(a) Introduction 2023 was regarded as the notest year anording to ABB. This has server négative mégaies ou deulopuig courteies with segards to global waring. In this auswer the adverse migails of global waining with segards to copis will be desuseed Juspails of global wasting and major Majol husdles ce developing courteies to tackle global warning mipacts had g finance Developing countries lack the prancial capacity to tacue the inpail of global walning for ensuring anegency measured and withgation strategies his prance would be sequired but is not available u'age adequate aucount les developing eauter. Unwillmanes of utenational community 



8m 20 Date\_ OP 28 was the failitation of loss and damage fund utich was been in a deguate. The pledges flurs far have not bren enough to wer developing vanteres deal with global waraceig (Nasie Janal, Cop28: not up to scratch, 2023). Population explosion The developing courteies hold the bulk of the woelds population which is a heredle to caule global warning. A larger population usua weed more resources and more efficient stralegres with the developing courteils cealler steuggle with hace of awareness Many people le dévelopienz courreres the unaware of global warning and They are unable to adapt and people Hieusetnes which poses an unnease peoblem for developcing court sies. E



Date\_\_\_\_20\_\_ by COP28 used have then detimentally. They que not prepared to give it up unich is a challenge and hundre to g tachle global waening. R Sunnary of major hudres of developing countries -Gleuder Grap Economic cisis - Ill'terary Majos unedles Miteracy. opposition to to thelle puasungout global warning Population exploside lover fy Jeability to attain clean Pro Less evergy Funderia Condusion In condusion, the locits hurdres to Tailele global canning by developing. cand sier is distussed ce. eight of Cop 28 which circluses reliterary lack of puds and fossil fuel appendence



20 Date\_\_\_\_ 3(6) Tuteduction A palance diet is essential for unan life to seach its full capacity. A palanced dief has coustileneurs which ceiclede laturg the correct amount of calories, nacros and vitamins to sustain geoute. and uaissurent cous tituques a balanced diet Adequale aucount of calories Calorie ceitque il cossectial foi a balanced diet. Each u'dividual has a afferent requirement depending on their age, ler, unsuload, height among alles things Adequate calours uaila eusure à aaupeneliquerg heunae who has sufficient energy. Be example, nou-wolking nouver require less edosies apploximately 1800 compared to labour-geitlusive men who require 3000 appeoninate 5 Intalle g macsoc A palanced diet meder sufficient Macionutrileurs sorte unité réclude carboligarates, proteins and fais. Réese are required ces à large proposition to ensure growth. F QUALITY

1000 Date\_\_\_\_20\_ Intake of vitaming for adequate functioning Vitann's are essential for chemical plocesses and are sequired for human body to fuccion peoplety peoplety. Hence, vitamin A'B, N E and and c que essential with each performing unique functions and nover clienty the body Why is balanced diet needed? To fuel geowth thulaus, painularly young people, need a palanced diet to grav. These sequirements dange with age and envier ucent To macitai energy levels A balanced aref is needed so that 77 aunaus can neep up with their crock and don't become fired. If & balanced diet is not manitacient fatigue may be a result Carclusia Ju conclusion à balanced diet ocistituies leads to growth and nour is huncert

20 Date\_\_\_\_ 3(c) Jutioduction It can be gaid that machine learning is a subset of Artificial Intelligence (AI) which uas puduleduised today's world. This is the co buaux it has seeped into every facet of to human existence and changed the way most lastes que careied out. The eddutionization of AI will be discussed. Ways through which AI has revolutionised the wolld Research is made easier As was evaled woolds of wfoluation to be processed at record speed. This has led to seglarch being done quickly and acusately. Thus less tuice it spent on seslace and more a inplementation Advancement in education sector At has the reductionized the education many people are shalenes are seilos as how able 6 lealy difficult concepts through chat. Gir 3. Thes was changed the praditional classpoon enviconment as complex topics can be learned creatively Huough AT

Date\_\_\_\_20\_\_ Revolutionization of the medical field AI is now able to detect diseases fleugh machine learning. Fog trample, cauce was dereited in patients by thouging their radiogeapties and lobols have also been used for surgical procedures les nospitals ciceassigly (Henry Wissinger The Age of AI and our theman Future, 2021 social witer alliques serolutionized Vegle are under dependencing on AI to meet Their employed needs. Kunanpid lebots such as sophia are an bling used for people who are socially isolated and need contact. Thes social ateaction yave been pudutionised. Economic pedicious A can predict and forcast loumil ustances such às project glowth flicough forecasting techniques or advise a economic policies that would work the best for progress. Military assistance through AI Operations. There and the anilitary

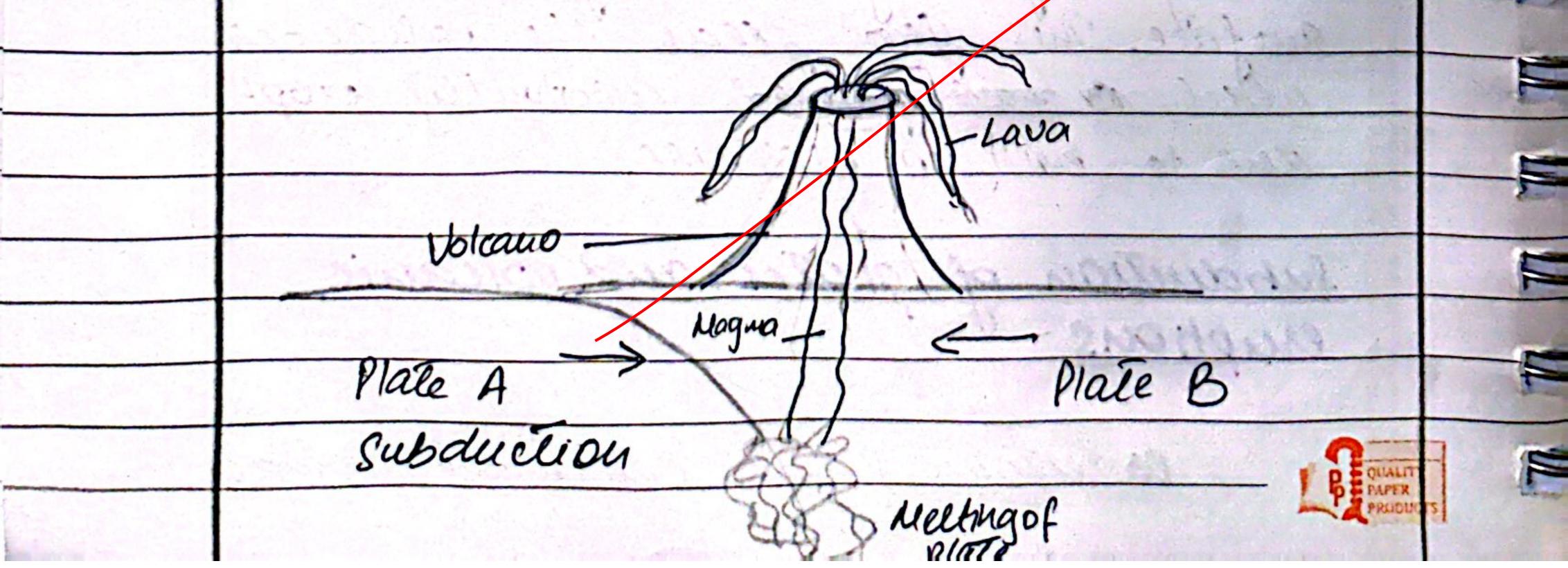
Date\_ 20 aud suveilleure, for crample, the Israel military has an entire AI will called SIGIMA dione steries ni broza con clusion In conclusion AI has sendutionized Į today's wold our through machine learning. Tur has positively unparted the many squeuts such as education and politics. But à it has mobiliouised same seguents Such as the military for the covere 3(d) Tuteoduclion RAM and loss are internal memory in and idupiter ney uge several difference, abouch will be arsussed in this ausull. What is RAM? RAM stands for kandom Access Memory RAM is thursporary memory which is unlike Rom. RAMis an utenal menory were is essential for the computer.

Date\_\_\_\_20\_ Tempolary nature of RAM RAM on is only on the computer when it is suitched on and will be lost when the computer it shut. Hence, it is not permanent. computer knomes faster uith more RAM If more RAMIS added to the functioning. Hence, land can be changed and a dated. Siverce purctions of RAM RAM can plande a g. bload. lange of functions. It is devere in its ability and not resteicted like Lan be alfered and is changeable RAM can be acceled as it is not steid. RAM is walleable and changeable. what is ROM? It is standed and sigid. It is also permanent memory essential to the present

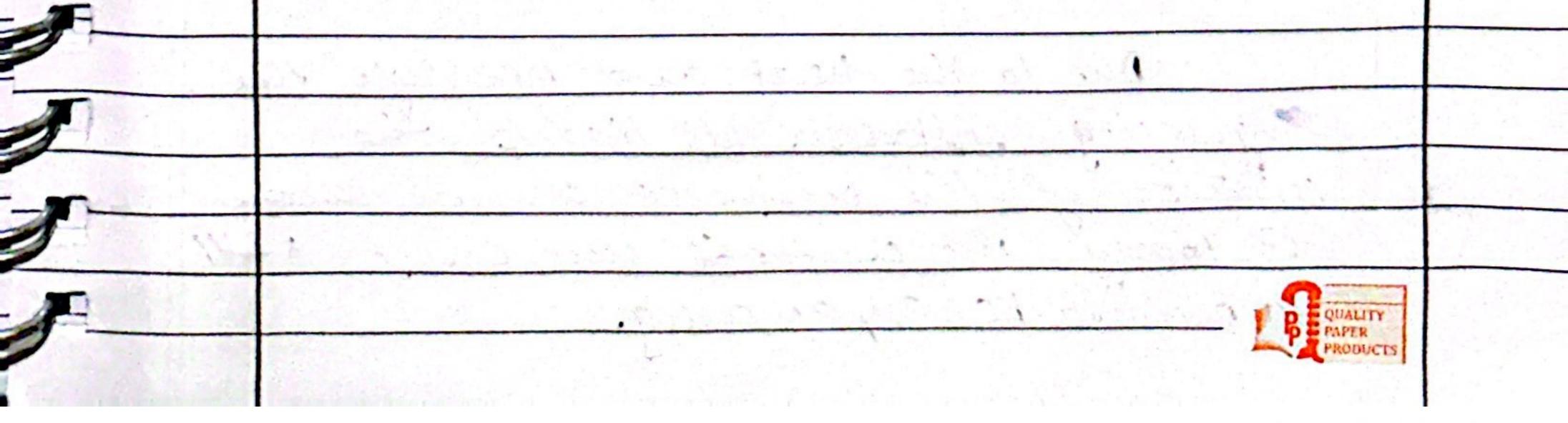
20 Date\_\_\_\_ aupuler. Penauent nature of Rod ROM servaris The same and ever if the computer is thest shut off this menory is not lost. Every time a computer K suitlied on low ealains constant and has the same instructions computer functions jeurais constant of Elis memory can not be added here it has no mipair on the speed of the computer. same functions and wints of Rong does not change like RAM. Comparaison table of Rom and RAM RAM Rom · Random Alless Meniory · Read-only meniory · Diverse fractions · Can vice case competter constant functions · No mipait ou computer speed speed . stays the same as · host when computer switched off computer switched on · Malleable Permanent and constant

Date\_\_\_\_\_20\_ Loulusion The willicia Rom and Roman arsussed in detail and their differences are assussed un defail. Q2a Introduction 6.80 (MA) (26.3 Volcano eluptions are natural granters which can be que to fectouic activities. In sceland a series of small karfliquaties caused by terfour areight ensued and later the volcano evoled. The this answer, discussion on volcano eruption will be disussed. Process of volcano esuption Divergent plate activity: rifling Divergent termoni tectoric plates lead to mogura flowing a top of the earth's Surface. This great fleds the volcances which as that formed weitrally cupt due to built up pressure. Subdution of plater and volcanic eruptions De lectouic places can move towards

Date\_\_\_\_20\_ call aller and are place is subdued by the other as it the since below. But to hear and pressure, it wells and feeds no a course. This can been magna to acunulate and a voliano an explode as a reself. Diagram of rifling cause volcano eruption --Lava Vokano Plate B Plate A. -Magna Tectouic plates moving away flow each other Diagram of cubduction causing volcano exprion: convergent plates 



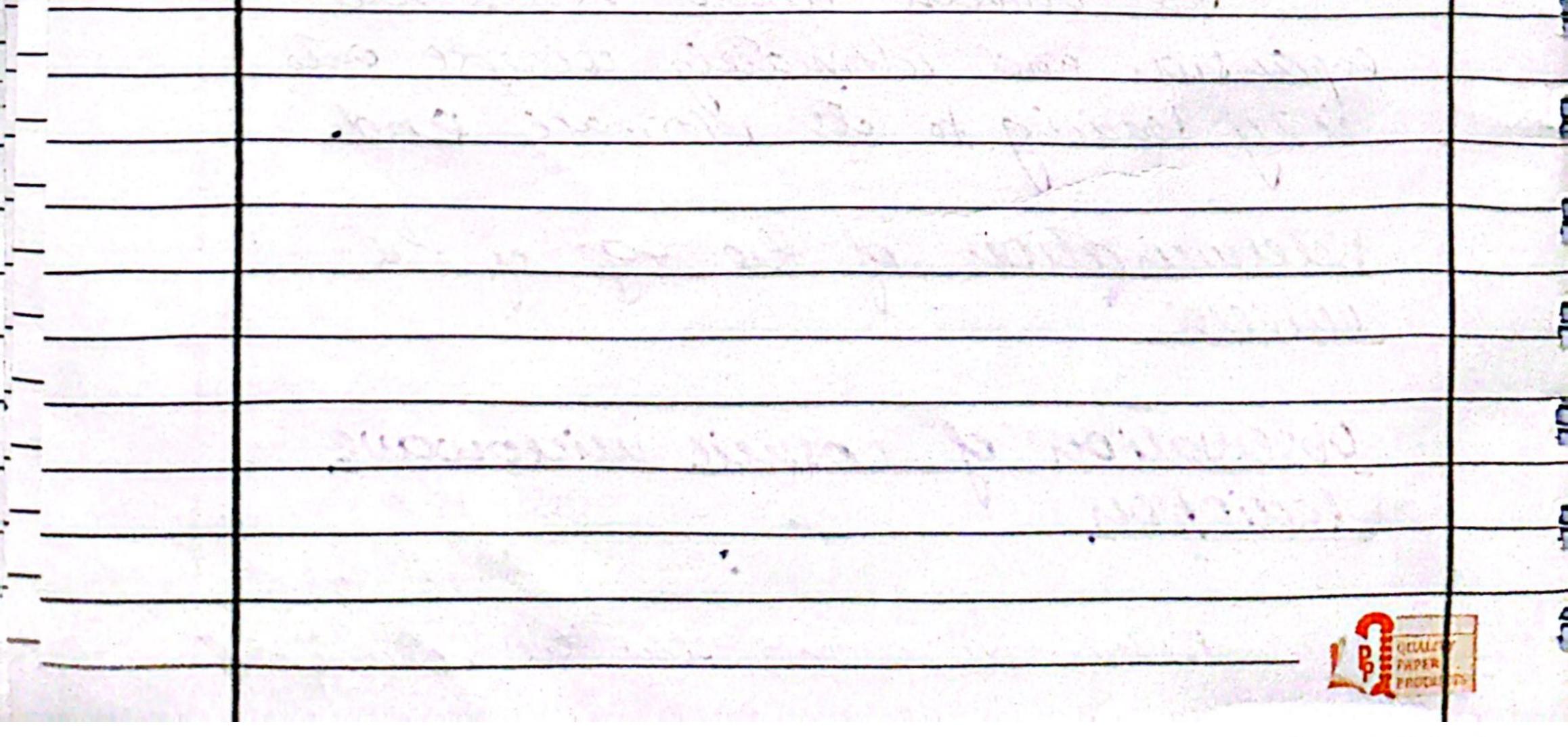
Date\_\_\_\_20\_ How volcanos erept Consistency of magna if thick If the magnia is thick and stilly then the volcanil explosion reay be more a viglent and way be theown out of the volcano. Valanic eluption if magna is light If the wagnup is light and aily then the no volcaes may erept Jess violently. The neggino cilicle blowes lava a the lasters suppre any flow out and flow or the sides Louclusia In conclusion, warnes exprise places, its the via subduction and efting i désuessid glong with how it explodes



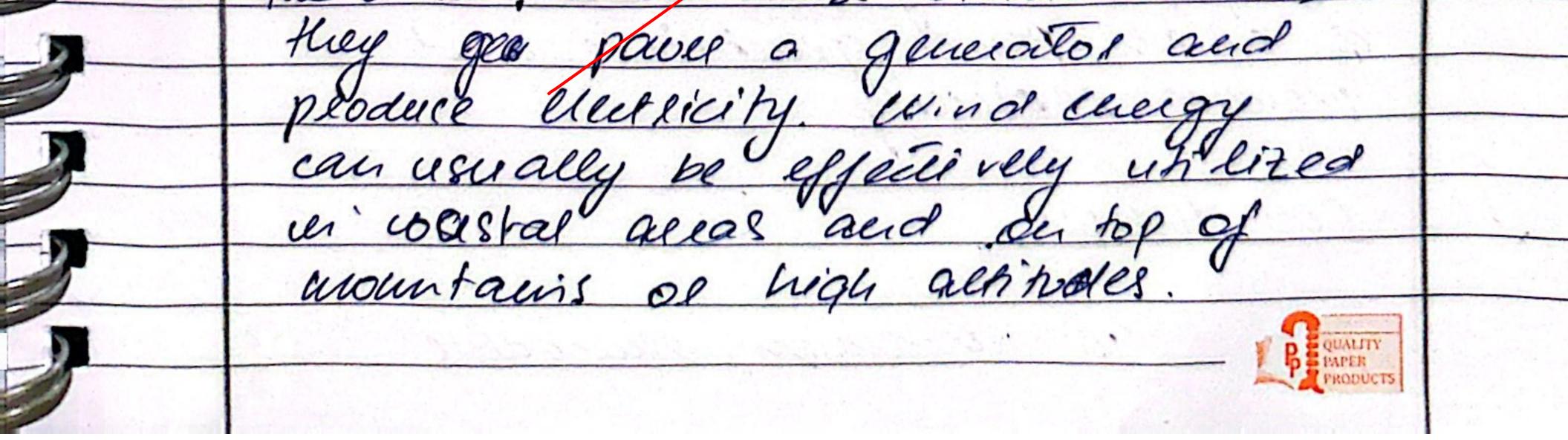
Date\_\_\_\_ 20 2 Q2(b) Tutoduction The Big bacq is a fleaky that was devised to explain when the minese cance uite beeig Big Cecuch entails flie opposite of the Big Bang Theoly. The age of the universe of determined by tooking at the posmic nérciowave radration and + ead waveleigthe - The Big Baug Theory The Big Baug Theory was a theory to explain the starting of the universe. The minere lane into being 13.7 billion ears yeas ago. mising Expident <u>Singularity: origin of the universe</u> The singularity was a point that was smaller than a pinhead and was so had F pressure and heat unlike any other This Sugalating was The oligin of the Universe The singularity explodes: the Big Bang. Due to the hear and pressure the Singularity exploded. This lead to the creation of the universe as we know it boday. The curitese universe is still much to be expanding.

20 Date\_ Big Baug diageau Singulacity Heat and pressure Explosion ( Big Bang) Universe forced after Grunce Theory Rue Big Cenach Theory is that the Universe is not expanding but la flier leaucing a size. This under mean that the itale fate of the universe would be that it would shrink to its end. Universe compets and itsey and ends The Universe could reverse the expansion and ultimately collapse onto itsy leading to its utspare end. Détermination of flie age of flie mivere Observation cosuil minowave d ladiopou Penias discovered that the cosure more

Date\_\_\_\_ 20 midduare gadiation can be used to study the age of the universe as it originates Jean the singulaeity = the origin of the universe. led wavelengths The led wavelengths of The universe objett auguing away flow the earth. They to are large waveleighte and can be used to shay the age of fle universe. Couclusion Ju couclusion, the big bang Theory and the big Cruch Huoty ale arsuesed " getail. Two is followed by ways to study the age of the universe.

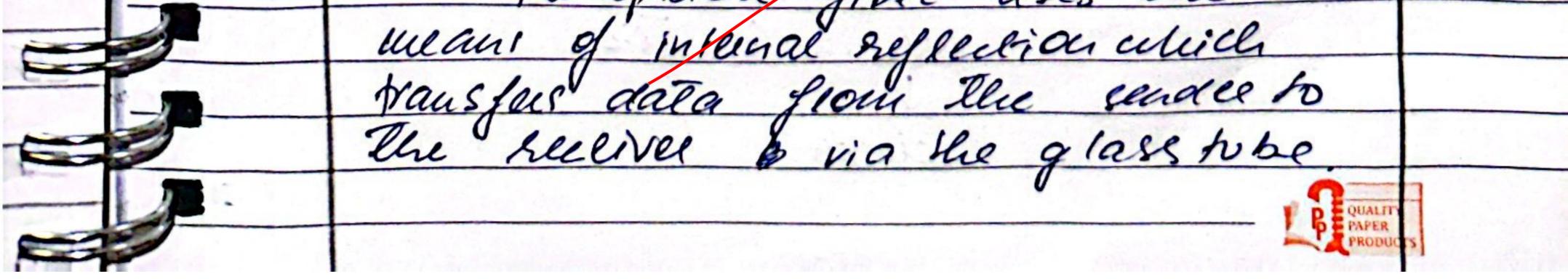


3 2 Date\_\_\_\_20\_ Q2(c) Interduction. Renewable energy resources are Hose That do not deplete and ear be Grenewable energies sources will be 1 discussed. Renewable Energy sources Solar energy Idae every vees the light from The ta sun to generate parce. Photo-whice cells are used to cancet the 1 Sui's light with heegy. These to cells all placed on panels which are called solar panels. wind langy wind lungy is used through windhubinies wind furthings cousist of large blades that are choved by the power of the und when these blades they -



Date\_ 20 Nuclear energy Naclear sugger is a remember energy that all the power of unclear firston The nucleus is que atom is split which seleases nipense amount of energy. can be used to ploque electercity perfitually to seauce for example, produces 70% energy fleangh mullas energy hydroeletter powel Hydroelectic power is generated Heards the pressure of evers cloually hydroeleteic plante are placed an downward stopes where there is a dominand Stream. The liver moves with force and neus the toebuier which pavees quelater and produces eletricity. Tidal energy of tides. The freebones are pursed by He pressure of ocean or sea Tides the pressure of ocean or sea Tides to anoth power generatore and ploduce electricity. con dusion condución, senerable

Date\_ .20 augy sources all assured in derait This answer which are sources that do not deplete. Q2(d)Introduction 20 ku of optical fibres is laid down under CPEC 10 Ellar communica tear is made lasie and connectivity liques. optical fibres uses internal repution and is an appriment means of sharing and tremsferring data which will be discussed u' this answer. How does optical fiber work? Use of glass with body feamenon glass that is essential for its graning as it systelles light. Phenomenon of internal septection The optical fibre uses The



Date\_\_\_\_ 20 Data transferred Via Light pulses The data is transferred via light putte flow are The to challe to the seceiver and torns into data again when it is succeed Diagram of aprilal fibre glass tube cladding sender severe Internal reflection Flow diag rain of how optical fibre Infoluation/data 1 converted to lightpulse V goes fleough optical fibre by inteenal septection data [information Received

Date\_\_\_\_20\_\_\_ -Loulusion -The cancelession, the collecting of optical fibre is discussed in derail using a diagean. It uses internal september and light pulses to send and selvice conformation. 3

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