Dos and Don'ts for Generaral Science Date 20.08.2024 & Ability Paper Z vesday acquiring knowledge is one thing and reproducing it in paper according to what's asked is another." There are a GENERATEW things I would like to highlight. 1. A 5 marks part requires at least 2 and at max 3 sides of a paper. Know that there can be two or three parts of a question and their marks are divided accordingly. So, address all of them in a just manner.

e a just manner.

e a just manner.

2. Focus on time management. You

get 35 minutes to colve one question muland about 8 mark part. Manage your time accordingly. The besults 3. rou need to understant that your per is supposed to look more. cientific than theoretica. So add flowcharts and diagram's where required. unhea Thy over nutrition 4. Your-handwriting and heatness can be really impactful. Avoid cutting and Mulnuteition focus on your spellings and you grammar. Here in GSA there's no deduction imma ks but your ite cereate antition expression will definite n pact. 6. In ability portion, give explanation for analytical ability question in words. You need to understand that a 5 mark part requires all steps with surand explained. Good luck for CSS 2025. You gonna rock in sha Allah.:)

2. Pood Diet Chality:

Even when food is available, if may lack essential nutrients if it consists mainly of processed or junk food.

According to the Woold Health Olganization (WHO), nearly 2.5 billion people suffex from mult/ micronutrient deficiencies, which are often (as a result of poor diet quality

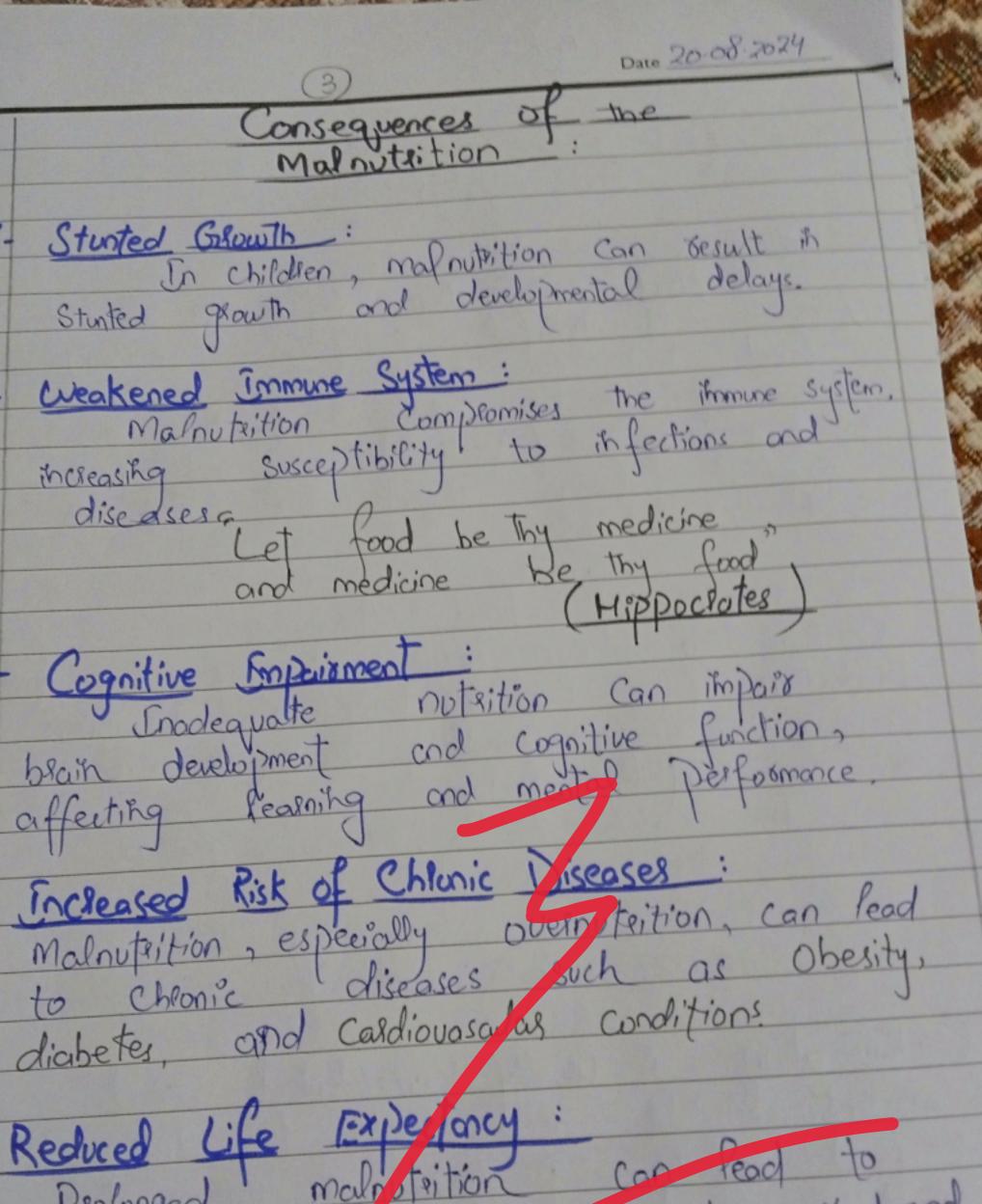
3. Health Conditions:

Health Conditions like gastrointestinal disorders
of cheonic julnesses can impair nutrient absorption, leading to malnutriention Infections and diseases can furthur therease nutritional deficiencies by incleasing the body's nuteritional

Poor Feeding Proctices:

Inadequate breast freeding, improper wearing
of Door dietary proctices can contribute
to malnutrition, especially in Children.

health that Dieces

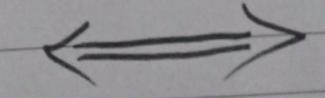


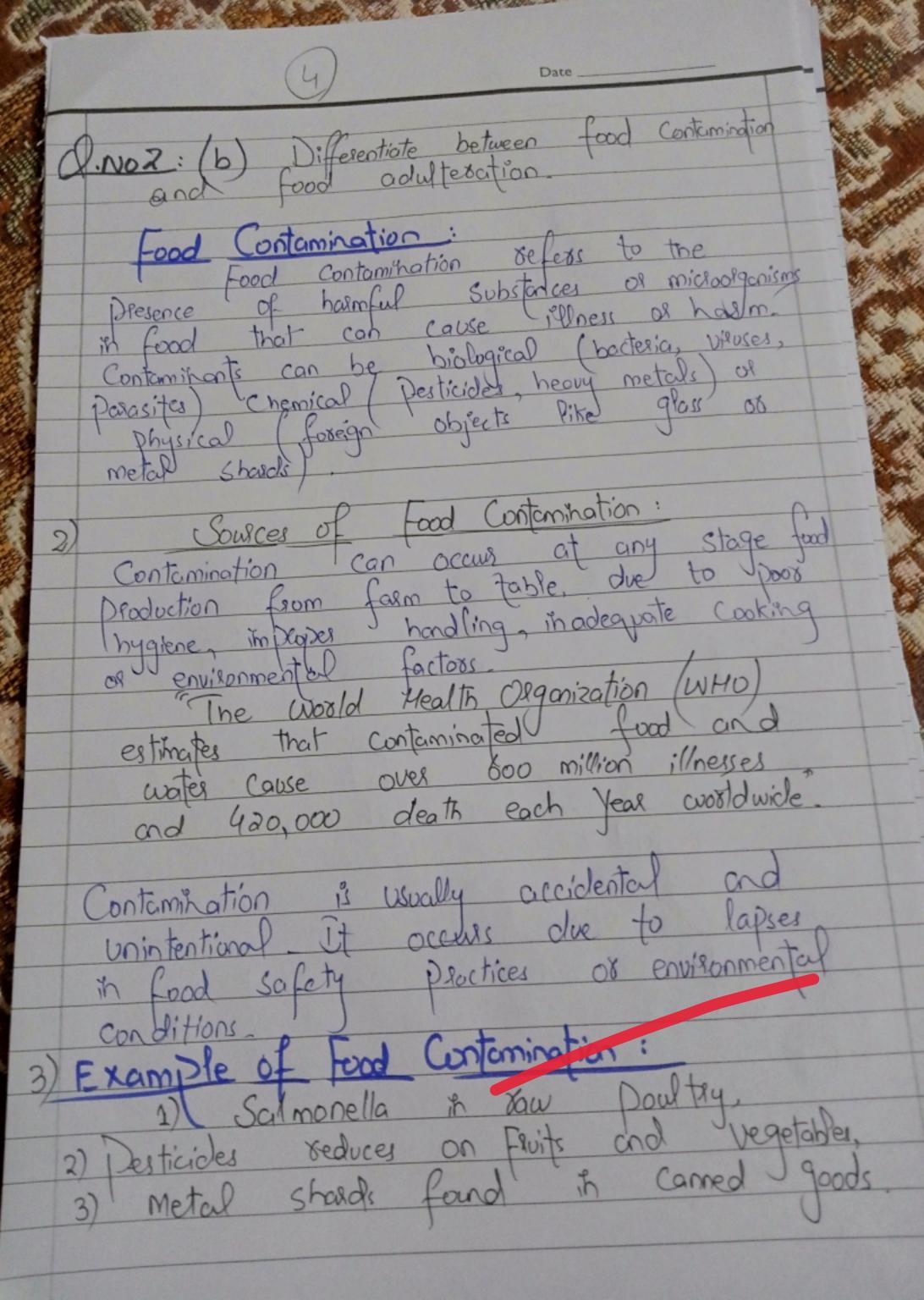
in Incleased Risk of Chlonic Diseases: Malnutrition, especially overntrition, can lead to Chronic diseases such as obesity, diabetes, and cardiovasalus conditions

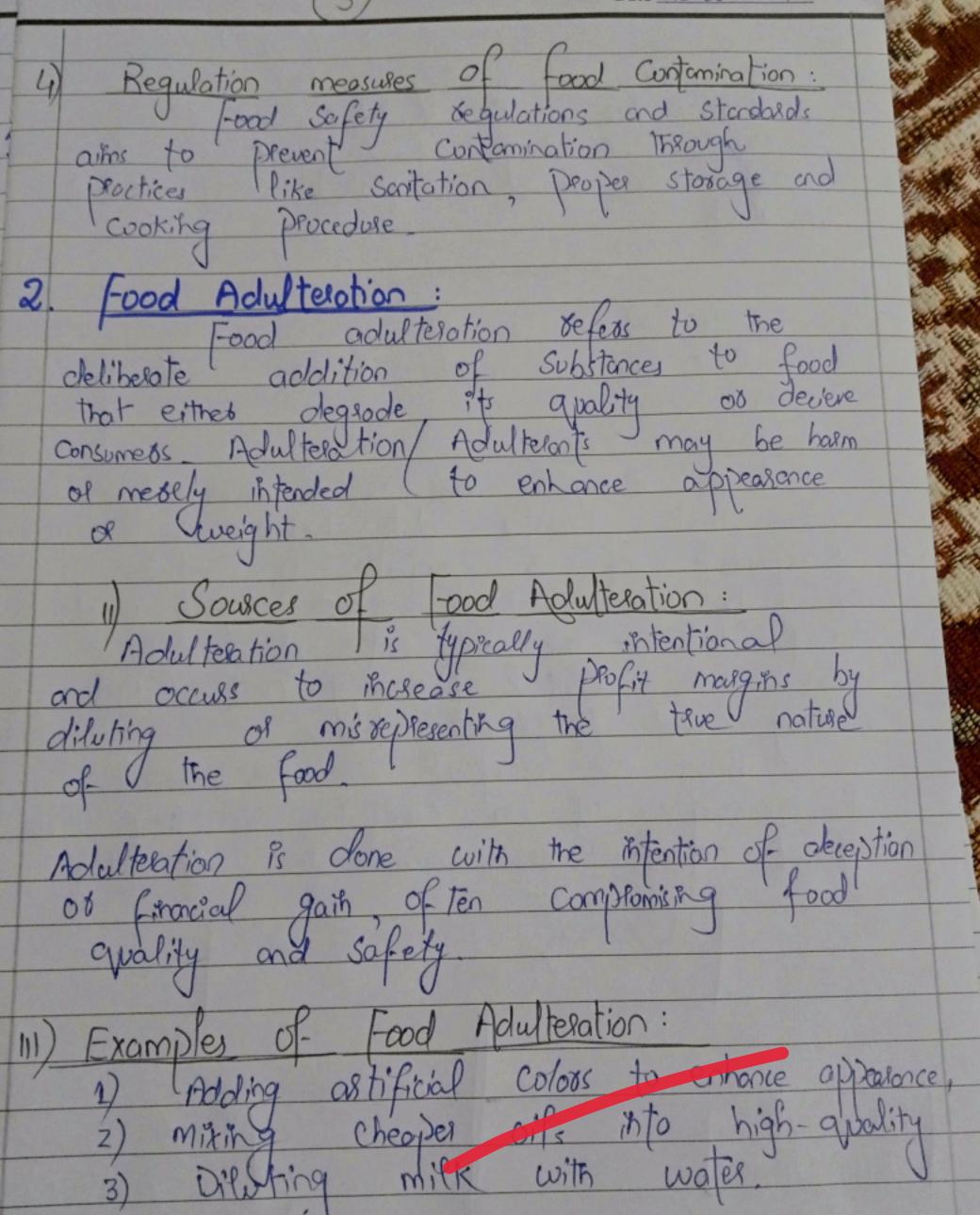
ii. Weakened Immune System:

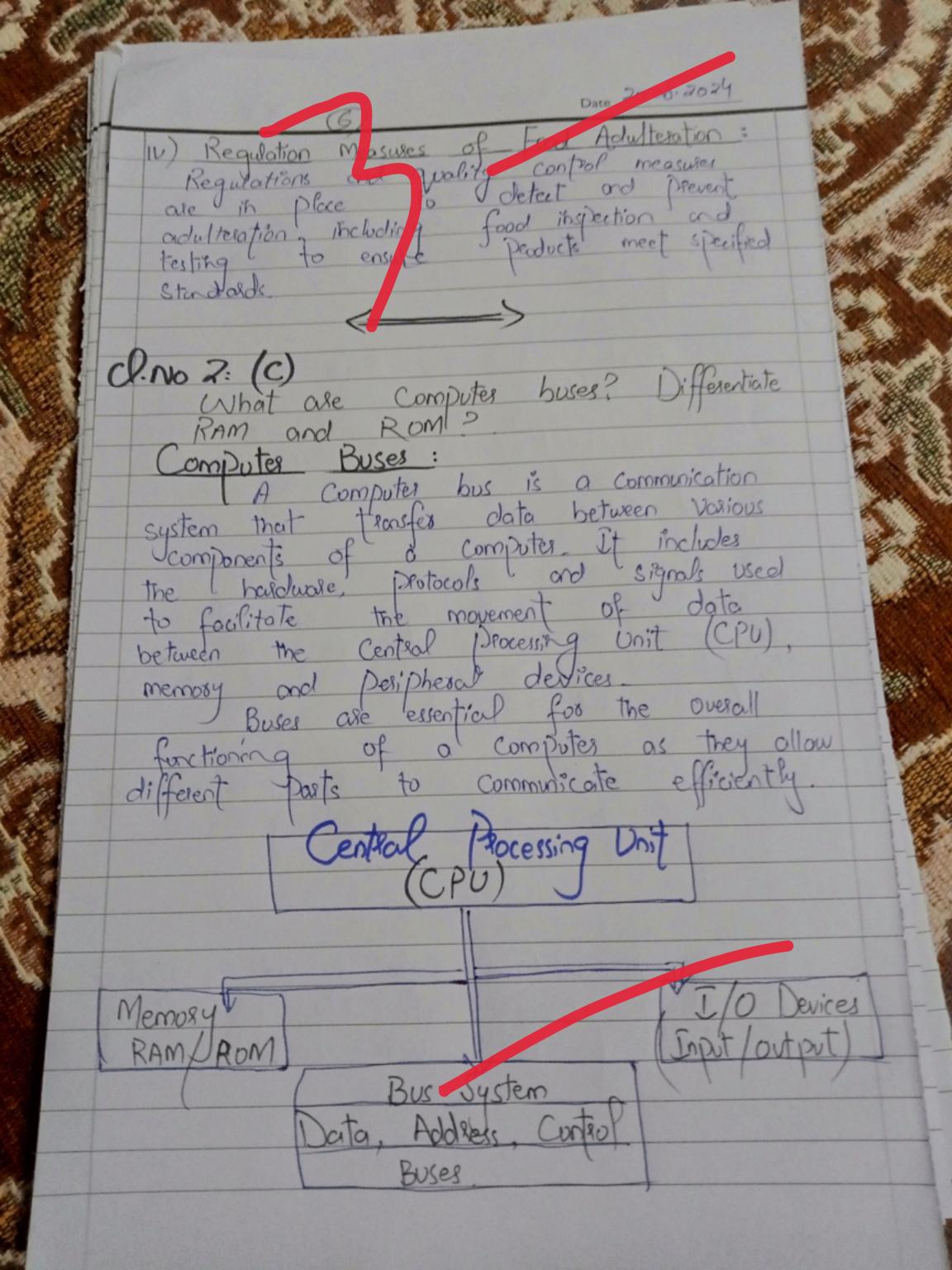
iii - Cognitive Empairment:

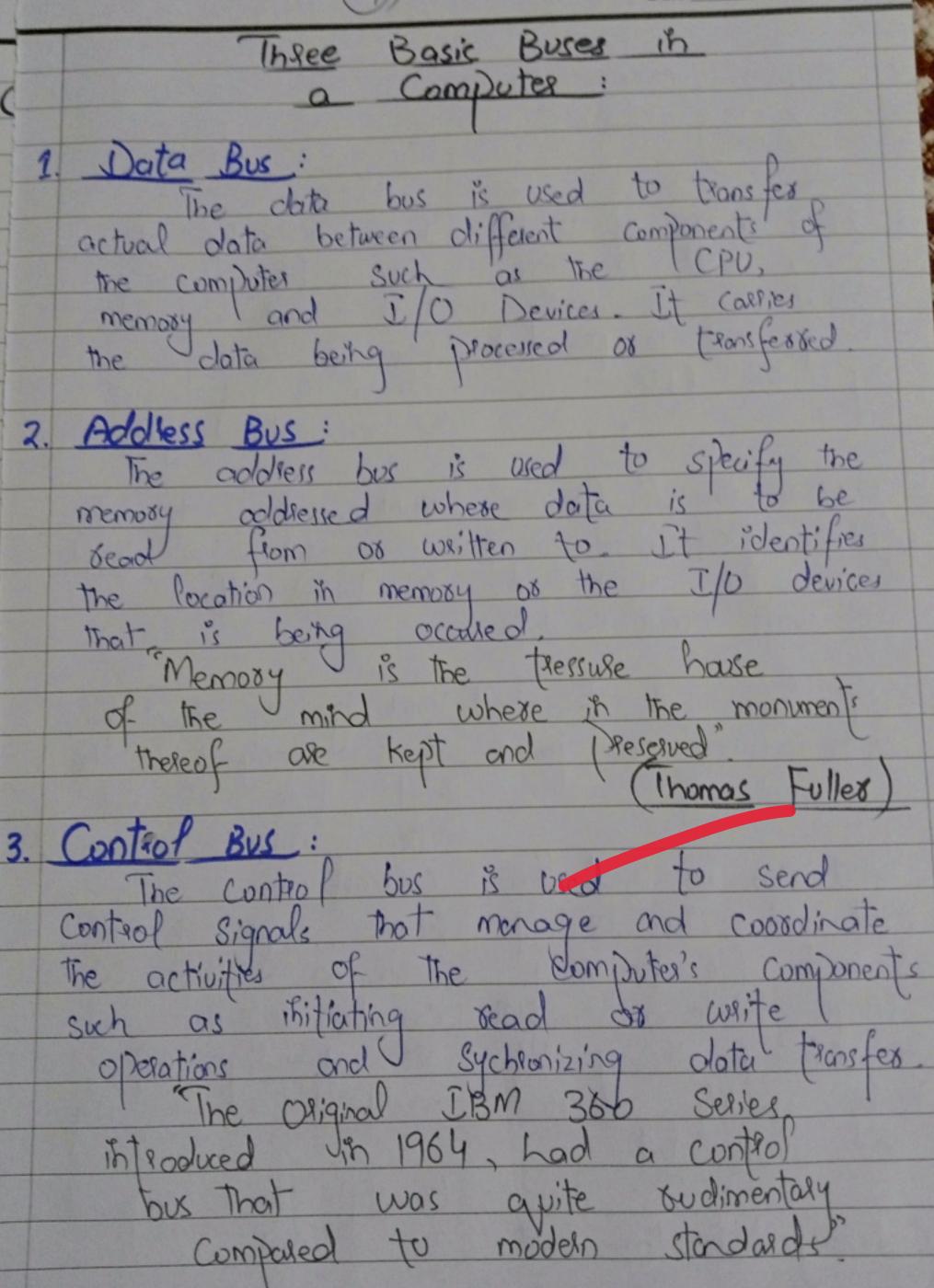
v. Reduced Life Experancy Complications and o to two kened overall malpoteition Prolonged reduced health due to











Read-only Random Access Memory (RAM) Rum is a type of 1. It is a type of volatile Non-volatile memosy memory used to store that is used to stood data that is custently Cirmuase or software being used of processed Ithat is not meant by I the CPU. to be modified frequently 2. RAM is crucial for the ROM retains its data System's Derformance as it even when the power allows for quick read is turned off. 3 It loses all its stored Rom typically meaning, data when the power it is designed to be sead from but not is turned of. written to under normal 4. RAM con be used from Ciscums Tonces. sead and written to It Some type of Rom is used for temporary such as JEFPROM Storage while a computer con be rewritten but is brunning, allowing data are generally not to be quickly accessed modified I frequently and manipulated slower compared Usually 5. Generally Faster than ROM RAM

Date . CP.No2(d)

What are geo-stationary satellites?

Distinguish Natural and artificial satellites, how many artificial satellites of Jupiter

are there? Geo-Stationary Satellites:

Geo-Stationary Satellites are Satellites that

Orbit Earth of a fixed position relative

to the Earth? Surface They orbit at an affixed position of approximately 35, 786 kilometers of approximately 35, 786 kilometers of approximately 35, 786 kilometers of above the equator. At this altitude their orbital period matches the Earth's rotation period (about 24 hows), allowed them. allowing them to remain in a fixed position relative to a specific location on Earth mis idea chasacteristics makes them ideal for telecommunications, weather maniforing and broadcasting The easth is the Chadle of humanity, but mankind cannot stay in the chadle foxeous "Konstantian Issiol Kousky

Distinction Between Notulal Sofellites: 1. Natural Scatellites:
These are clessfal bodies that orbit

Planets or other celestial objects naturally.

They are formed through notward processes and are not are do by humans Fusopa (a moon of Jupites) and

Titan (a moon of Saturn) Duspose of Natural Satellite:

Their purpose is primarily the result

of notural glavitational interactions

and processes. They can affect the host

plant? tides, solation and other characteristics. iv- Development of Natural Satellite: Natural Satelliter are formed through natural processes like accretion gravitational capture or co-formation with the host plonet. of Notwal Satellite:

Satellites typically have very
losting fox millions or ex

2. Astificial Satellites:
These are man-mode objects placed
into orbit around Falth on other celestial bodies. They are lounched for Specific purposes Such as Communication, observation do l scientific research. and creatives Satellites Purpose of Artificial Capellites:

Artificial Sotellites Creater to Serve Specific functions Such as telecommications, Earlth observation, weather forecasting and Scientific Besearch iv. Development of Artificial Satellits:

It designed and built by h

colvenced technology and ma

fulfill specific fundas. V- Lifespon of Astificial Stellites:

Astificial Stellites

Astificial Stellites:

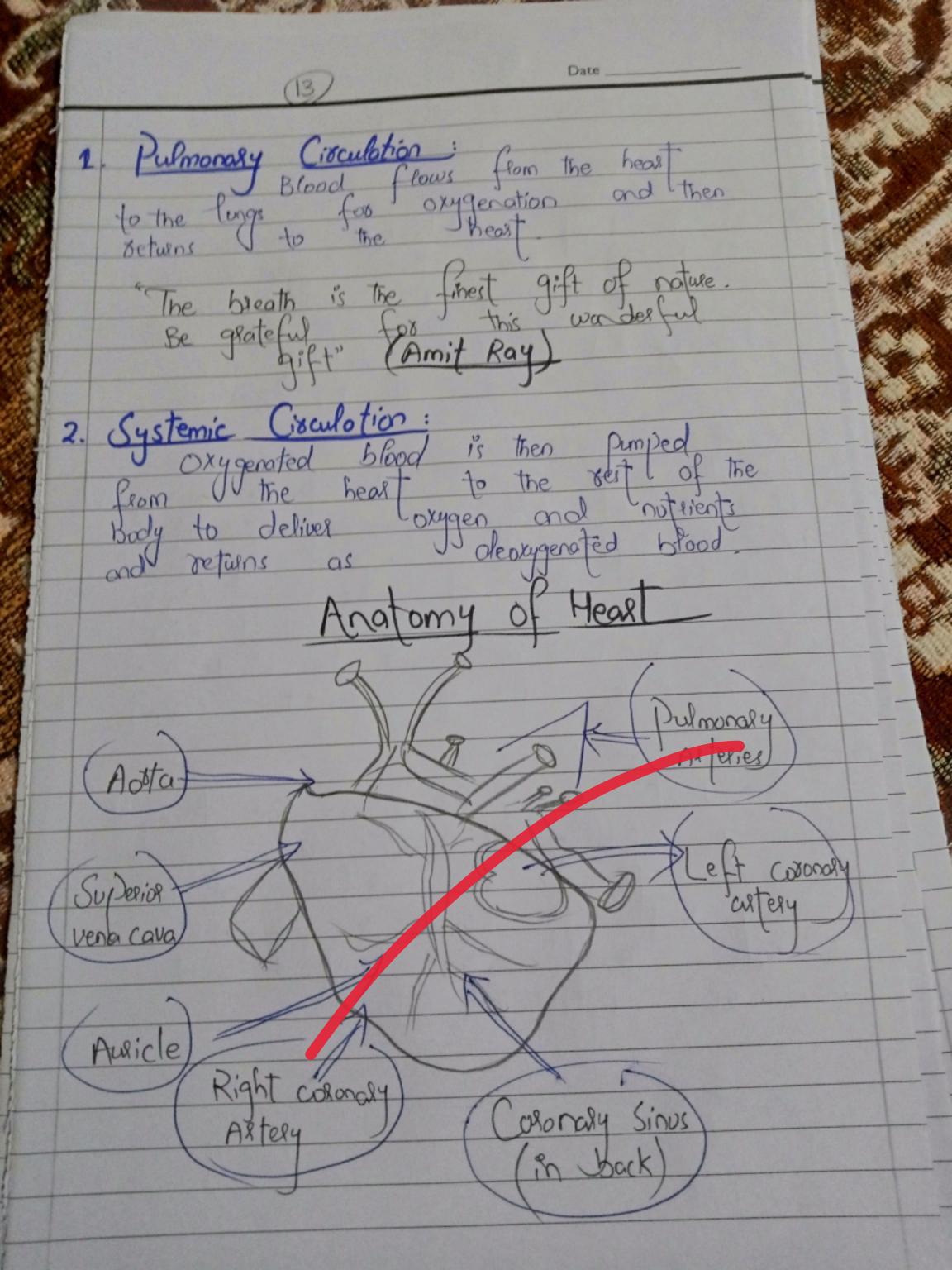
Operatoral lifespan of ten limited by

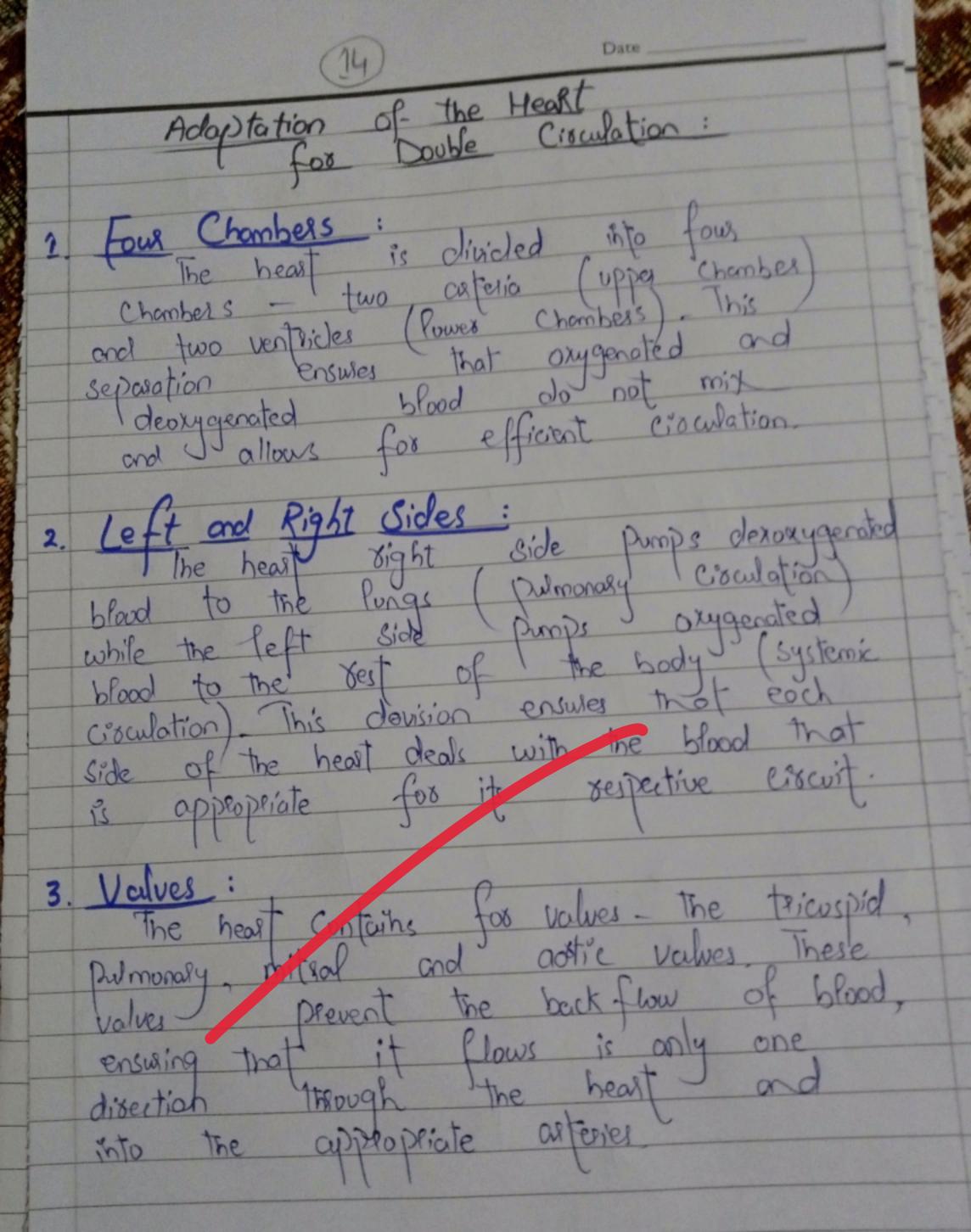
technological degsodation and orbital and may require replacement decomposissioning.

Astificial Satellites of Jupites. These include Space of that have been sent to study Turter and its moon, such as Galileo sacecraft and the Juno mission. These artificial satellites contribute to our understanding of Jupiter's atmosphere, magnetosphere and its system of moons. O.No.3 (a)

What is meant by the term double

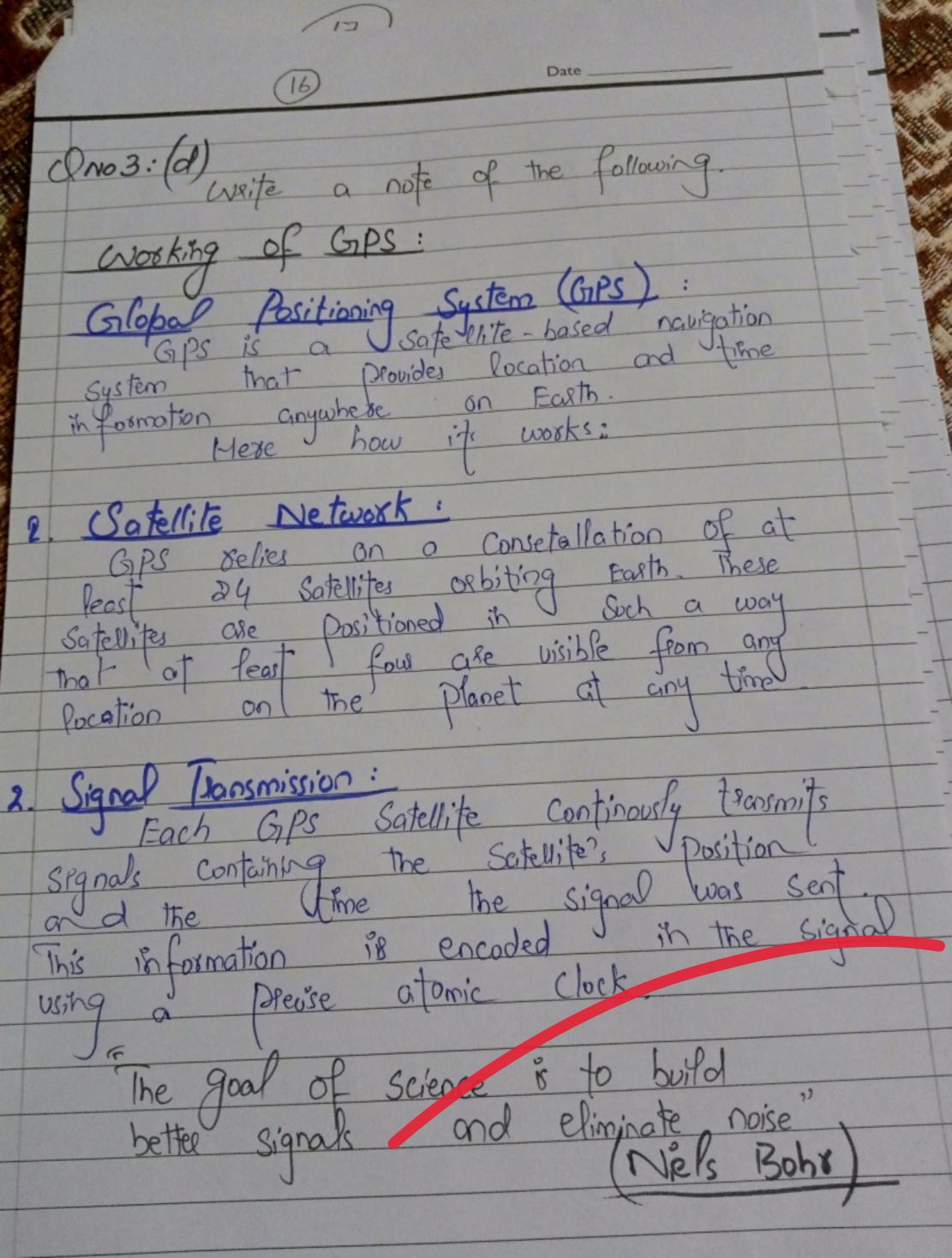
Cisculation? Briefly describe how the heart
is adapted to keep blood flowing
in a double cisculation? Double Circulation: Double Circulation refer to the type of Circulatory System found in humans and some Sther annuals where blood passes through the heart twice during each complete Circuit around the body. This system includes two separate Circulatory Souters: Coculation 2. The Systemic Circulation The





thick Ventricular walls: vent ricle has Thickes because than the right ventricle to generate higher pressure Throughou in Confact 12mb essential ,

(



Date _ 3. Signal Reception:

A Cops Secious on the glound

Picks up signals from multiple Gips

Satellites To determine its location,

the secieus needs signals from at

Reat four Satellites 4. Distance Calculation:

The secieves Calculates the distance

to each Satellite based on the time

it takes for the Signal to travel from

the Satellite to the recieves This

Ps done using this formula: Distance = Speed of Light X line Delay 5. Position Defermination: The secieve combines the distance information to pinpoint is exact Pocotion, which can then be wild for navigation or mapping Pulposes_

Date b) Working of a Mobile Phone: Mobile Phones:
of Cell towers and are designed to facilitate wireless communication. Here's on overview of how they work: i- Cellulal Network: The mobile phone Communicates with nearby cell towers, which are part of a cellular network the network is divided into cells, each salved by a cell tower. This allows for efficient J frequency reuse and extensive coverage ii- Signal /Ransmission: When a mobile phone makes a call ox Send data, it transmits a signal to the reasest cell tower. The signal is encoded with information such as the phone number or data request. In a the modern woold, a mobile phone Communication Social entestahmen

Cell Tower Commission/Communication: The cell tower sectors the signal and forwards if to a base Station Controllar (BSC) of a mobile switching center (MSC).

The BSC manages multiple cell towers and handles handloffs as the uses moves between l Cells. The BSE of MSC Boutes the Call Do obtained Sequest to the appropriate destination. For Phone Calls it connects to the seapent's Phone through the network. iv. Call Routing & V- Network Switching:

Mobile Phones also Switch between different

Cell towers as users many ensuring continous

connectivity. This handoff process is managed

by a cellular network to maintain the

Oquality of the Call Ono3: (b) Lives is a Chief Chemist. Comment -Lives as a Chief Chemist:

The Uver is often Called the hody's "chief Chemist" because it performs many essential chemical processes. It helps detaxify hasimful substances like days cond alwholl turning them into less hasimful forces/forms (Left Cobe) Left Cobe Right Cobe bile duct gall baddas \$ Small intesting The Lives also plass a key vole in processing nutrients from the food we eat, including Sugass, fats and proteins. It makes important proteins for blood clothing and maintaining blood Volume

(No 3:(c) Comment, the greenhouse effect is a blessing Also oliscuss enhanced greenhouse effect and its relation in global acoming? The Greenhouse Effect: A Blessing:
The greenhouse effect is beneficial because if keeps Faith warm enough to Support like. It happens when gases (CH4) like Cosbon dioxide (CO2), metrane (CH4) and water vapor in the atmosphere teap heat from the realth's Surface would be extremely cold about -18°C (o°F) making it impossible for most life forms to Usurive By trapping heat, the greehouse effect helps to main tain a stable climate and supposts the life cycle/water cycle, which is essential for life. cycle, which The natural greenhouse effect is Earth's gift of warmth, essential for our Fames Lovelock

II. Enhanced Greenhouse Effect and is Relation to Global warming. Enhanced Greenhouse Effect: when human activities increase the levels of greenhouse gases in the atmosphese.

Activities like by my fossil fuels

(which release for Parming which release methone) and inclustrial processes which release selesse niteous oxides add more greenhouse gases than natural processes. This cause more heat to be teapped in the atmosphese, leading to higher global templetuses. GHG Effects Relation to Global
worming: The extra hot trapped by the enhanced

Preenhouse effect saise Faith's average

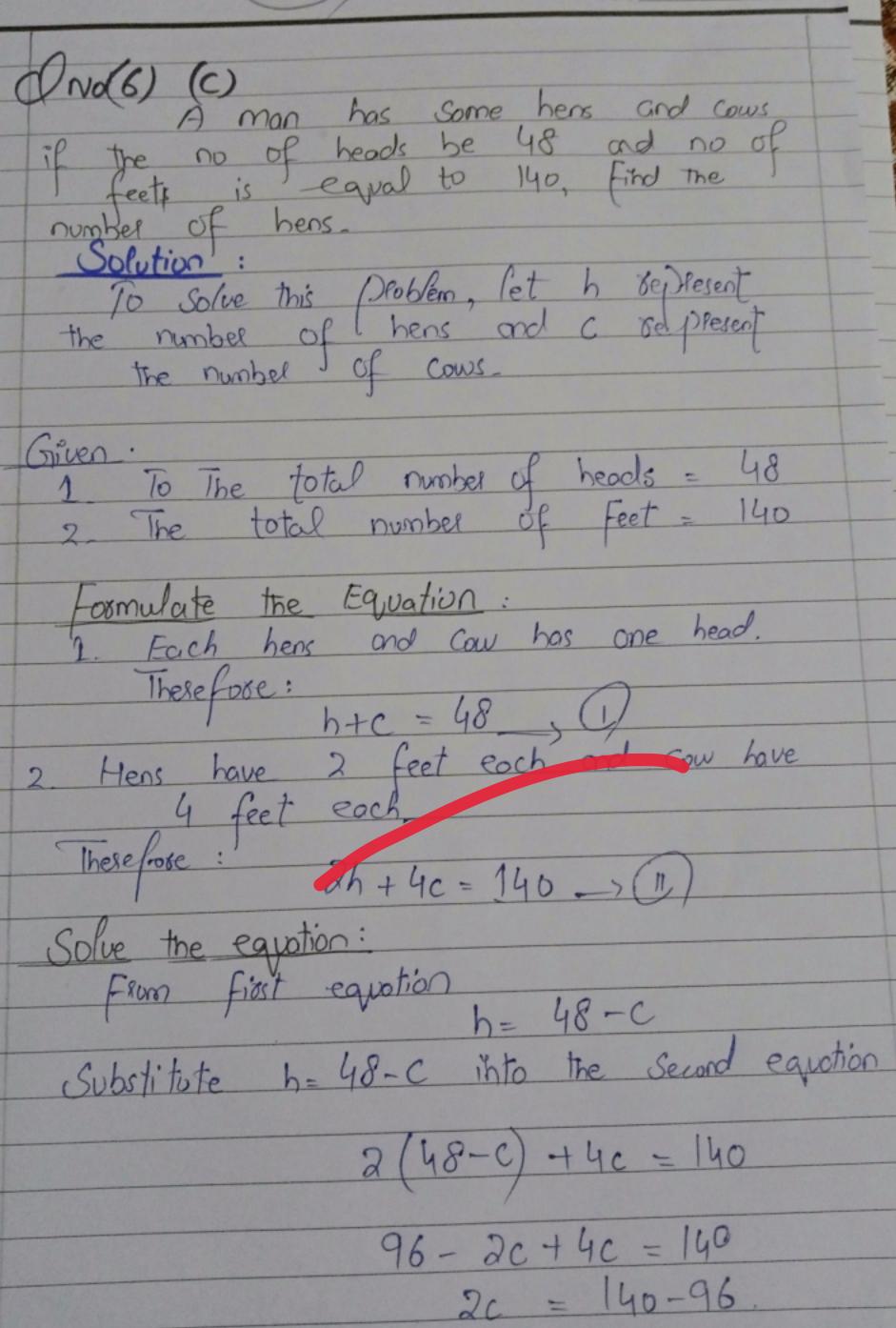
Templeture leading to more frequent

and intense Weatures and Storms i- Rising Templetuse: ii. Melting Ice and Rising Sea Levels: Mighes templéetuse couse ice a melt, which vaises polles to can lead to flooding Pevels and aleas

Date_

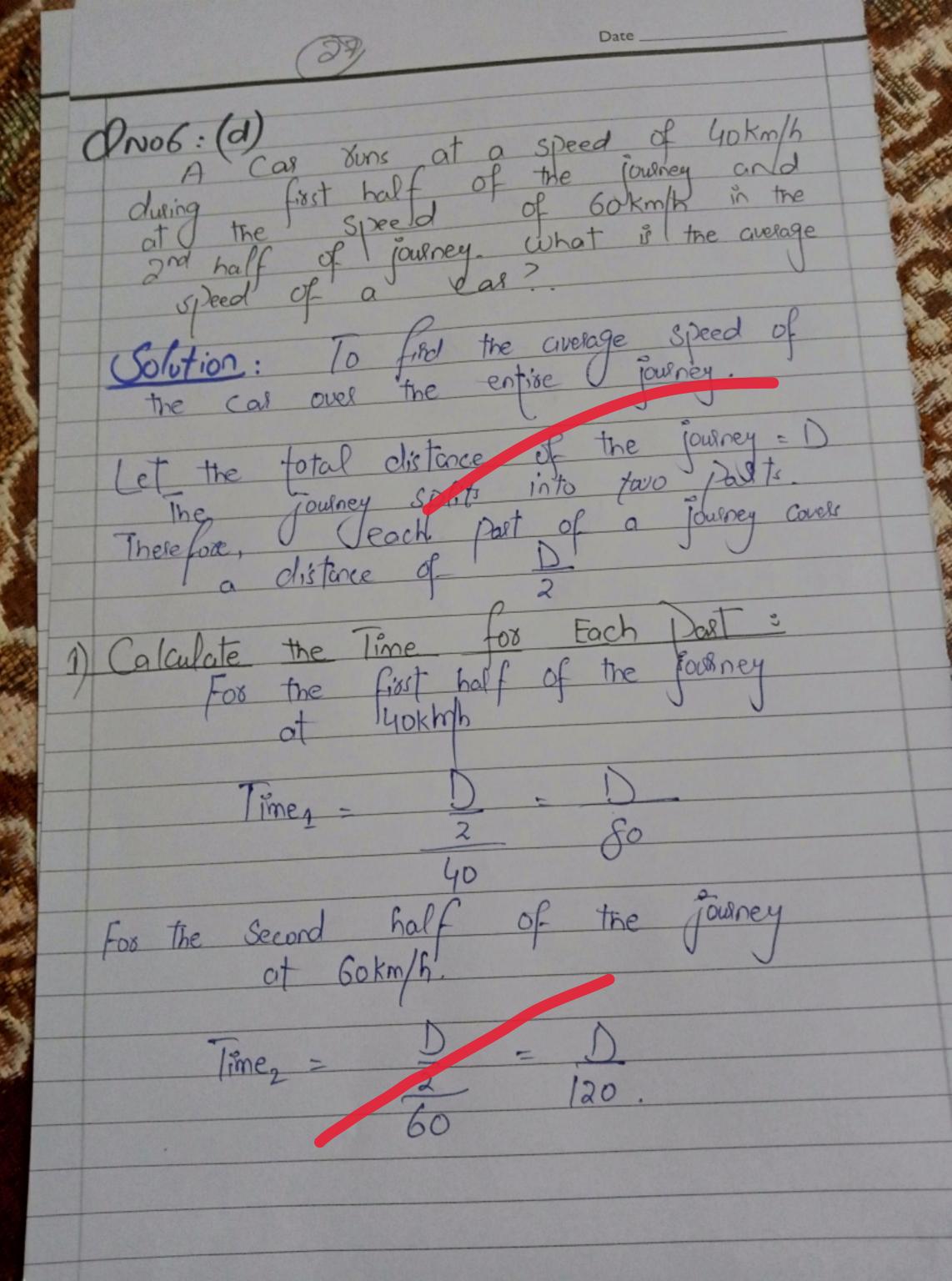
iii- Changing weather Patterns: O Grobal warming disrupts weather Patterns, causing causing more extreme and un predictable weather which can affect farming and natural habitate. the Changes over ase making to planet (Al-Grose) iv. Ocean Acidification:
Increased Co, 150 makes oceans more acidic, which can harm marine life like Coral reeks and Shalfish that need Calcium to build their shells and Skeletons

As the Oceans become more ocidic, the life with it them becomes wilnerable", - Cousteau



(25)

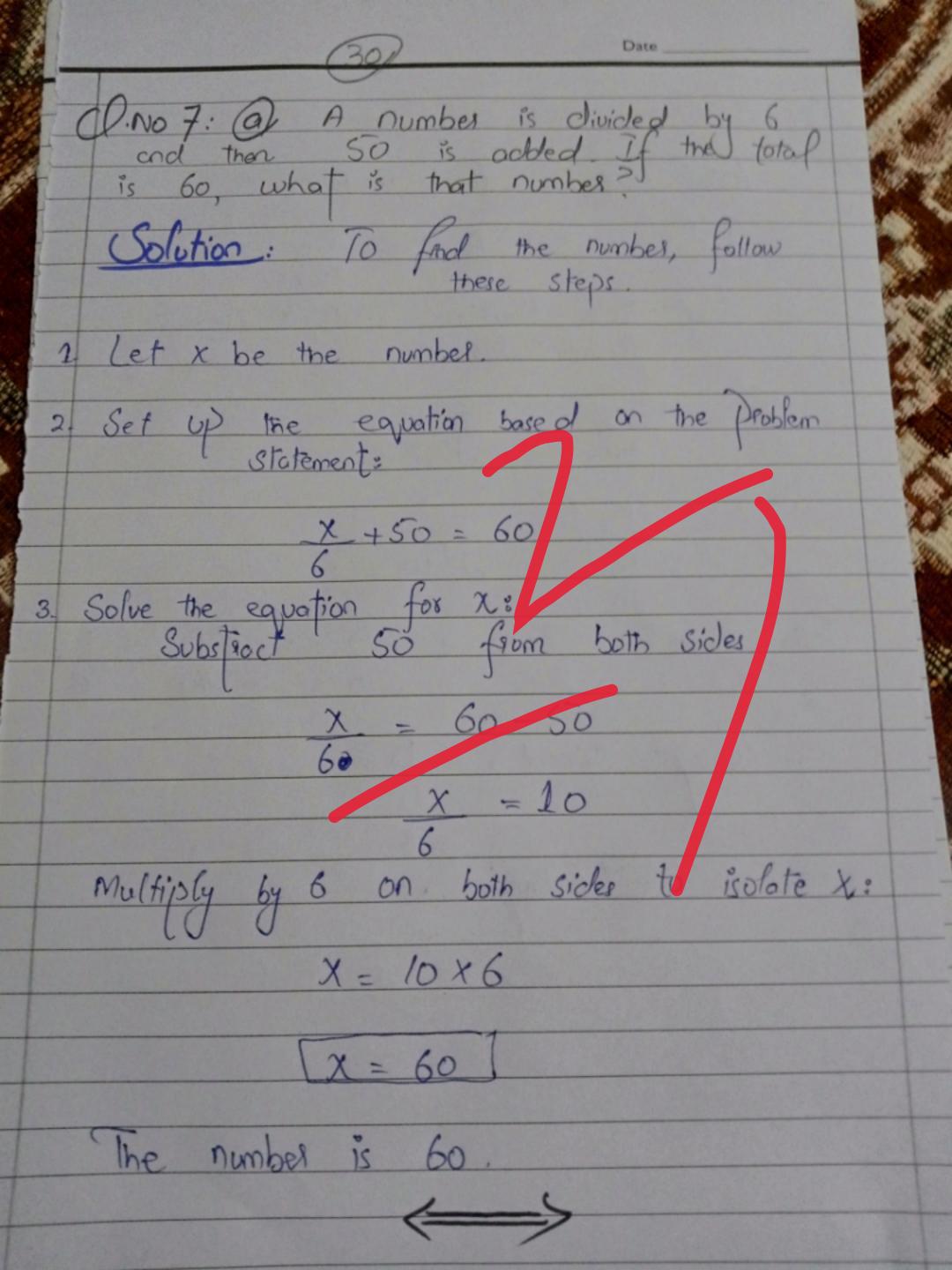
Date ___ 20 = 140-96 ac = 24 C= 22 22 into first Now Putting the volves egyation The number of hens = 26



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Date ____

Calculate the Total Time: Total Time = Time, + Time, To add these factions find a common denominator 80 120 Total Time = 3D + 2D 240 240 Avelage Speed = 48 Km/h



Date (ONO 7 (b) Find the cold one out: 8, 16, 24, 34, 40, 48 Som the list 98, 16, 24, 34, 40, 48 Examine the Pattern of Properties of each number Check if the numbers are even:

All the numbers in the list are even 2. Kheck the difference between Consecutive numbers: 24-16=8 34-24= 10 40-34= 6 most of the differences are 8, except for 10 3. Identify any number that disrupts the fattern difference between 24 and 34 is 10 which is differences

odd one

