Relevant content SEDRA NAZ Increase length **Enough headings** BATCH # 346 SECTION-I Hurdles in cleveloping Countries to tackle impacts Global Warming: What is Global Warming warming is the rise in average earth wreaking harbe on limate garger all around the global. nd inefficient and wasteful renewable resources :/ The Hottest According to Asian Development Bank the year 2023 was the hottest year in the history of manking the year 2023 was the hottest year in the history of mankink.

The China Kinjiang the temperature in July 2023 meached upto 52.2°C which

is historic. In Palcistan, in the city of Jacobabad, Multan, Sibbi temperature crossed 50°C which is the hottest in its history. Causes Of Global Warming Global warming is caused when heat from sun reaches eath and when the earth radiates the head back into atomsphere it is absorbed by green house gases present in the atmosphere. As a result temperature increases. The various sources of Green house gases are:

Thologones (release (C' coarbon); -> Population Explosion -> Massive deforestation -> Solid wastes roposphere

# Major Hurdles to takle impacts of Global Warming Though Global warning is a global environment problem but some countries are more affected . Among these are developing countries including Paleistan. Pakistan contributes only 1.1. Of C'emission but is extreme weather changes every year. 2022 Flood is the best example in this regard. OP 28: is the 28th Conference of Parties to UNFCCC, concluded in Bubai and is attended by 2002 countries, including Paleistan. The major hurdles in light of top28 to tackle impacts of Global warning in developing Countries are following: Thallenges for activating loss and Danage Funds by developing countries. Tack of financial resources to invest in climate mitigation and renewable energy projects. Extrem weather events causing losses and making it Challenging for Countries to recover. > Burden by external debt > Lack of infrastructure and execution > Pledges for loss and damage fund, fall short of \$300 billion annual investmen

# Balanced Diet

Balanced diet is the diet that includes all the nutrients in right amount, like Carbohydrates, proteins lipids, minerals, vitamins etc. for the proper growth and normal functioning of our body."

# Macro Nutrients:

Macro Nutrent are required in large quantity for proper functioning. These include Carbohydrale Proteins and Sipids.

### Carbolydrates:

These are main Source of energy. Molecules
Consists of Carbon, Hadigan and Oxygen. The
Conrices of Carbon, Hadigan and Oxygen.

Oxygen. The
Conrices of Carbon, Hadigan and Oxygen

### Proteins:

Source of energy required for muscles building and healing. Sources of Proteins are fish, milk, meat and eggs.

Milk, meat and eggs.

Deficiency healing process disturbes

Excess: heart related problems.

Fats: Source of energy, transport of
fat: soluble vitamins (A,D, Frod K).

Provides insulation on vital organs.

Sources of fats are mark, oil, meat, fish,
almonds etc.

Deficiency: insulation Suffers

Excess: Cholestrol causes Painful joints Micro Nutrients Micro Nutrient are required in small quantity by body. These are following: Minerals: Essential for bones, teath, blood clothing etc Some of the mineral required by body are Phosphoras, Potassium, Sodium, Coppel, Ison, fluorine, Zinc, Calcium & Sources are milk, spinach, vegetables, fruits, nuts etc. Minerals such as phosphorus combines with Calcium and important for bones. Pottassium is important for healthy motioning These are organic compounds which are essential for normal working, growth and reproduction. These are fulther slighted into 2 categories: 1 Fat - Soluble vitamins Vit A contributes in good usion
Vit D Reforms strong hones and teath
Vit E Good for skin shar, nails et.
Vit K Helps in blood clotting.

2 Water Soluble Vitamins Vit B Complex includes Vit B, B, B, B, Bs, Bs, Bs, Bs, Bs, Bg, Bg, Bp, Important for growth nerve functioning imune system and reproductive system. Vit c

Also called Ascorbic Acid and is
essential for wound healing, noive working.
We can obtain it from Citrus fruits. cial Intelligence: "Artificial intelligence is the study and engineering of intelligent machines capable of Performing that come tasks that characterize human thought."

These tasks require include problem solving, learning understanding natural language recognizing patterns and making decisions. 19Chine learning: It is a specific approach within the broader sield of AI. It focuses on the development of algorithms and models that enable computers to bear from the data and improve their performance on specific faste over time, stead of being explicitly programmed to perform a taste, a machine learning system learns from examples and experiences.

# Applications Of Artificial Intelligence in World:

Artificial intelligence revolutionsed today's world. Here are some ways in which machine learning has made a significant impact:

Cognitive Science:

This area of AT is based on research on biology, neurology, psychology, maths de It focuse on learning human behaviours and how brain works and uses this knowledge to creat expert systems which can provide decision support to end users in form of advice.

Robotics:

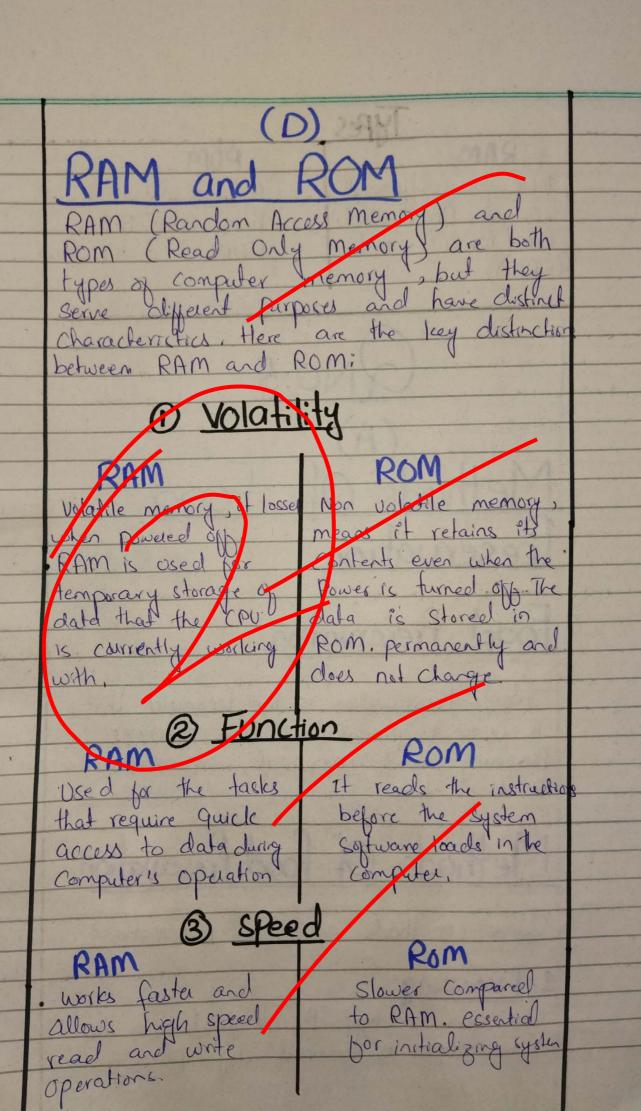
Machine learning has created Robots that work just like humans. In many developed Countries (Robots) are working in industries, resturants, in our phones etc. Robots have visual perception, ability to use hands skillfully and physical ability to move our any surface.

Communication:

Artificial intelligence has ability to understand Janguage and soe can talk to Robots on our computers and devices on different apps and it can asswer us just like humans understand each other. People are now connecting more with Robots than humans. AI has worked really well in the area of education. Scientific tegrarch has become more easy with AI. Student can know access data on a click, all at one place. AI can generates power point presentations, research papers, assingnment within minutes. AI in Science

Application of AI in Science includes
automated discovery, design of experiments
interpretation of data etc. Fraud detection (gber security

Machine learning apportherns are employed to detect patterns of fraudulent behaviour in financial transactions and online activities. This has reduced the impacts of cubu threats on businesses and individuals. Environmental Monitoring: Artificial intelligence & applied in Environmental science for tasks such as Climate modeling, deforestation monitoring wildlife conservation. These applications Contribute to better understanding and managment of environmental challenges.



Types There are allerent types of RAM whose are (DRAM) and It has different types Mey PROM, ERROM and EEPROM underste ching (SRAM), rea m. Sc NO:5 Methods Of Food Preservation Food Prescruation of Preservation is the technique that used to prevent food from spoilage, oning, and micropical contamination for time, ethods Offood Prescripation Some methods of Good Preservation are 1-Freezing
In this method, the temperature of the food items sowered by placing them

in Cold Storage which helps in preventing the growth of micro organisms, like backing and fangs. Fish is usually transported from learachi to other cities by placing ice cubes in storage.

2- Vaccum Packing
In this method, food items are placed in a plactic kan And the vacuum is

In this method s food items are placed in a plastic bag. And the vacuum is Created in the bag by removing the air containing oxygen and Co, - the essential requirements for the growth of Bacteria. It results in the death of microorganisms It is used for fruits.

3- Salting:

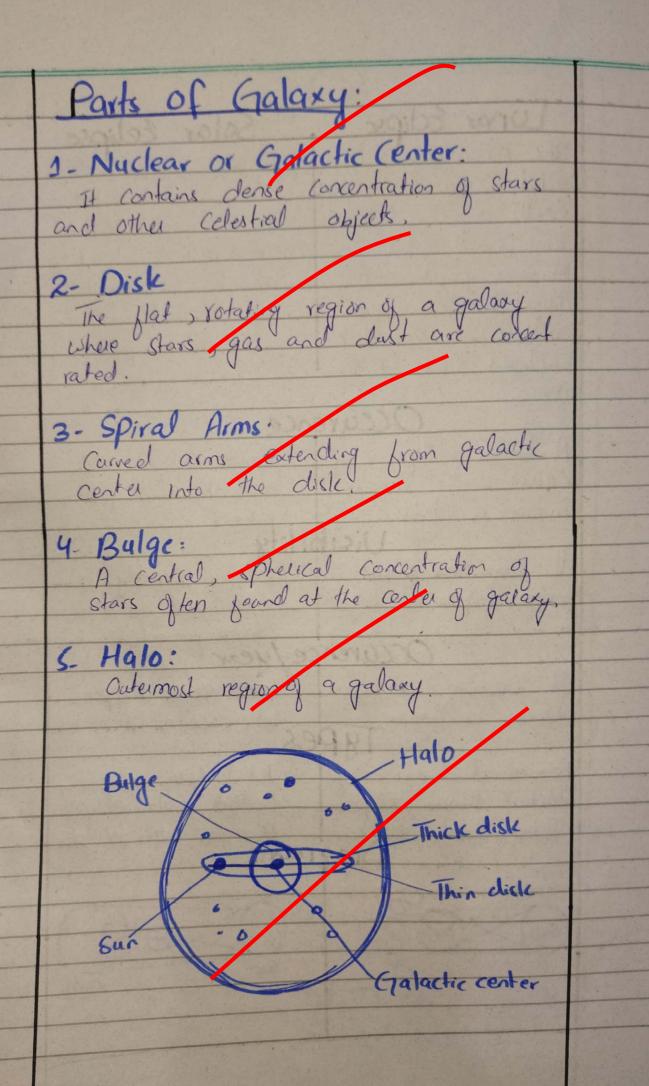
This method implies the use of edible

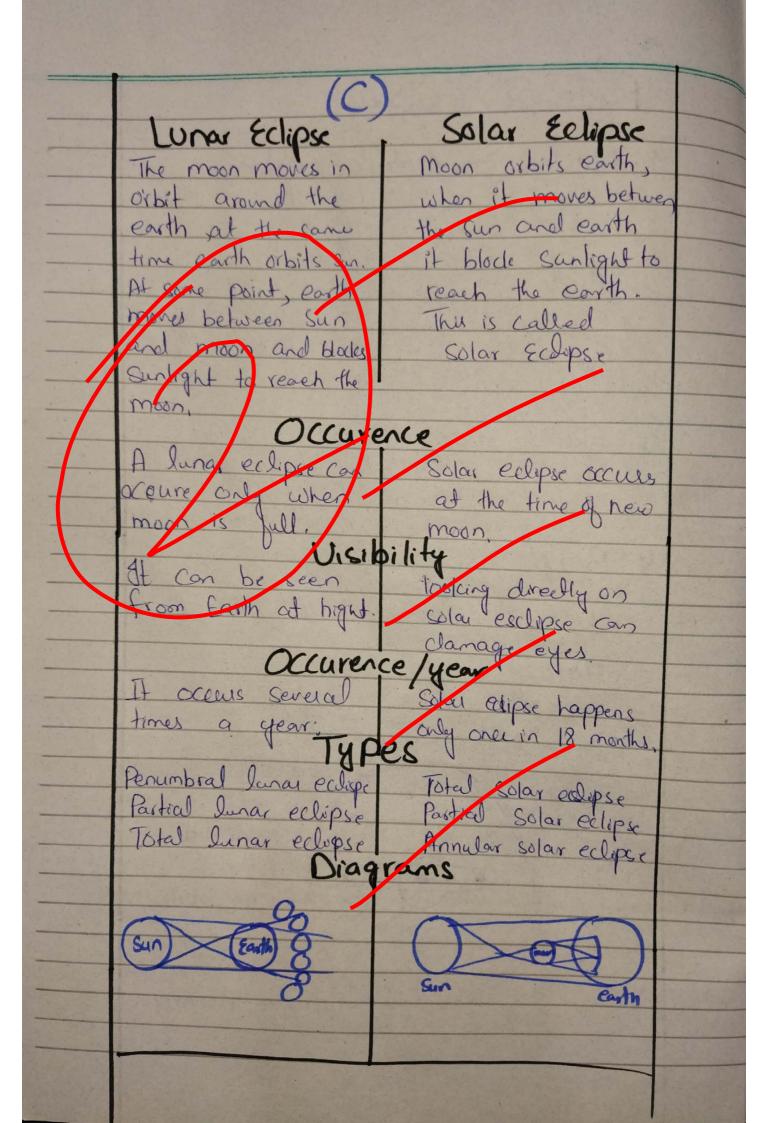
Selt thrown over the food items. It not
only slowdows the nourishment of Bacteria
but also cleactivates the enzyme present
in the tissue. Meat in areas where
there is no light is not applicable.

In this method, calready cooled food items are restored in case and bottles made sterile by burning or washing them with different sheeting agent. The food items are safe tot the cans and bottles are sealed. The partially cooled pulses are stored with help of their method

5- Burying in the ground food items are buried in the grounds with no light, oxygen and caubon dioxide. This hampers the growth of micro organisms. It is commonly used to preserve vegetables. What is Milky Way "Milky way is a large, disk-shaped galaxy that includes our Solar system" Aspiral galaxy is shaped like a disk, usually with or bulge in the centre and with arms that spiral outwards as the galaxy rotates. Dark Matter: Colaxies are thought to have a black hole at their active Contres. A black hole is a massive object, comprising a significant pointer of galaxy's massing influences galacte dynamics through its gravitational pull. Its gravitational field is so strong that it does not let any thing rescape from it.

Despate being invisible, this clark matter plays fundamental role in formation of galaxies.





(D)

## Nuclear Fission

It is a nuclear reaction in which the nucleus of an atom splits into two or more smaller nuclei, along with release of energy.

### Process

A newtron Collides with the hudens of a heavy atom, such as vranium - 238 or Plutonium 239 and soults in two nuclei and newtrons and amount of energy.

1 + 23 ) 141 Ba + 12 Kr +3'n

It is used in power plants to generate electricity

## Nuclear Fusion

In this process two light atomic nuclei Combine to form a heaver nucleus, relasing a large amount of energy.

#### Process

In Stars and hydrogen bombs, the entrenely high temperatures and pressure cause hydrogen nuclei to overcome their mutual repulsion and fuse into helium, relasing energy in form of light and heat.

2H+2H->3He+1n+3.27men

