

# PART II

## SECTION - I

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081

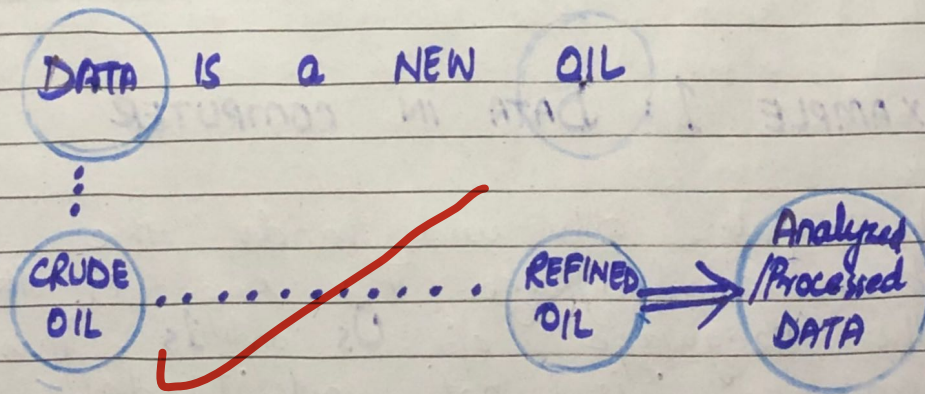
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### QUESTION 2:

- a. "Data is a new oil." Do you agree? Justify with your simple opinion and 3 everyday examples.

Yes, "Data is a new oil" in contemporary world. Data reflects valuable insights that helps to analyze and interpret various scenarios and their possible outcomes. The term "Data" in the above context refers to the raw information of facts, figures and references. This data get further refined like oil to get obtain it in the form that can be useful.

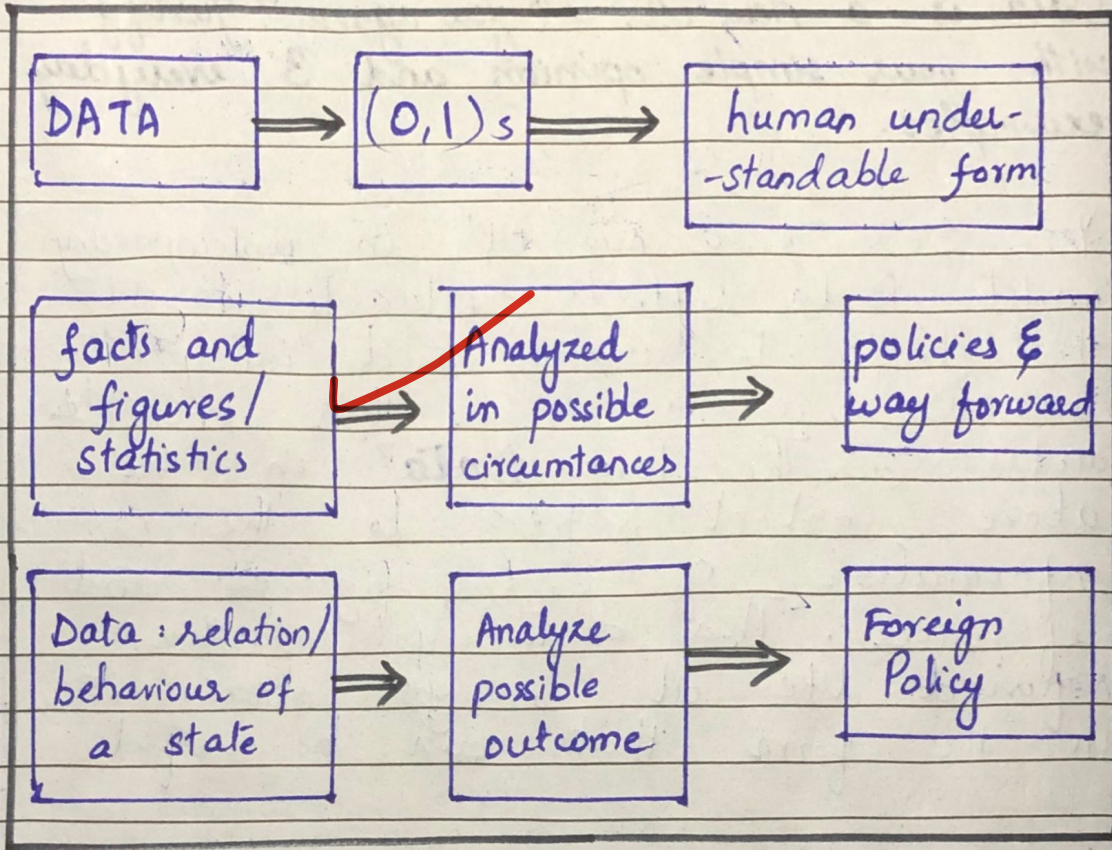


This diagram illustrates that Data is the crude form of oil. This data will be processed i.e. analyzed by scholars and analysts to convert it in the form of valuable information.

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### EXAMPLE :



### EXAMPLE 1: DATA IN COMPUTER

A computer only understands the binary language. This regards that the language of 0s and 1s. This language is not understandable by human beings. Hence the data of 0s and 1s is converted to human language so, it can be read and understood.

## EXAMPLE 2 : FACTS AND FIGURES

The facts and figures presented by organizations through surveys cannot be solved until it is analyzed by different lens. For instance, data statistics of poverty. This data must be analyzed by the lens of cause and effect. to figure out the possible solutions to that particular issue

## EXAMPLE 3 : INTERNATIONAL RELATIONS

In International Relations, the state behaviour and its policies are analyzed to shape the foreign policy of its friendly and rivalry state. For instance, the military policy of china is a "data" to India. India has to analyze the possible threat and shape its own military policy / foreign policy.

## CONCLUSION

In contemporary world, "data" is crucial as "oil" to fuel the needs and shape the understanding.

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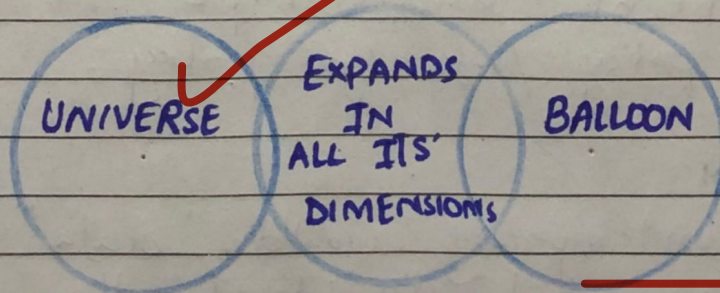
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b. Universe is expanding, how it resembles with balloon blowing in working.

The universe is expanding and it is a scientifically proven phenomenon. However, it is resembled with balloon due to its similarity in expanding and possible outcomes of expanding.

### SIMILARITIES BETWEEN A BALLOON AND UNIVERSE EXPANSION:

Both the universe and the blowing of balloon expands in all directions. A balloon when blowed expands does not expand into a linear direction rather it expands in all its dimensions.



### POSSIBLE OUTCOMES OF UNIVERSE THAT RESEMBLES TO A BALLOON:

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## POSSIBILITY 1: IT WILL BURST AND SCATTER LIKE 'BIG BANG'

One possible that is assumed by scientists that universe will expand and burst like the "Big Bang". This resembles to the balloon that when balloon is blown more than its capacity and gets burst and scatter.

## POSSIBILITY 2 : UNIVERSE WILL COLLAPSE AND SHRINK :

Another possibility is that universe will expand to its maximum reach and then collapse. After collapse it will ~~shrink~~ shrink. Similarly, when the ~~air~~ air in the balloon get its way out, the balloon starts to collapse and eventually will shrink to its minimal size / initial size.

## CONCLUSION :

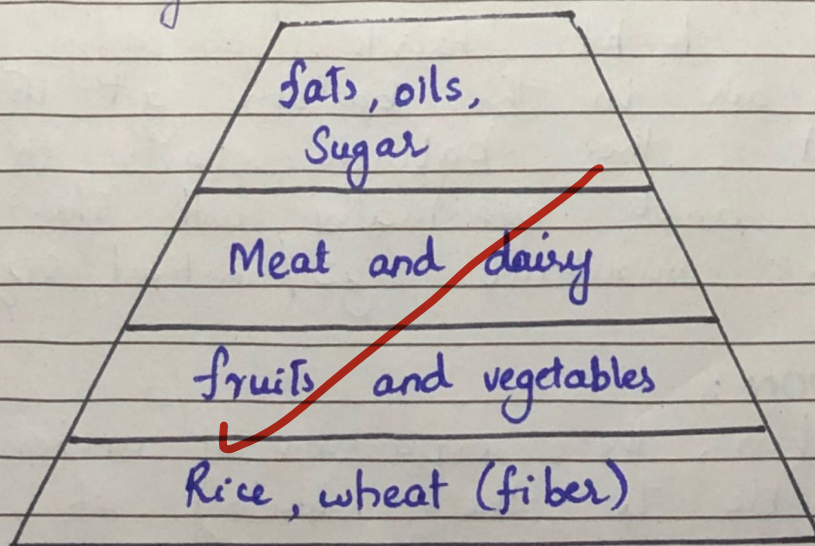
This, the expansion of universe is resemble to the blowing of balloon in three-different manners.

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c. What do you mean by balance diet?  
Deficiency of vitamin A, D and E  
can result into what type of  
imbalances in human body.

A balance diet refers to the idea of  
of taking the right portion of food  
from all the classifications in a day.  
An adequate amount of food must be  
taken such as, fiber, fruits, vegetable,  
dairy, meat, water in a day. Any  
sort of imbalance intake of portion  
will lead to sufficiency or deficiency  
in the body. Thus, a balance  
diet is necessary for a human  
body to function properly and keeps  
it healthy.



Pyramid of Balance Diet

## DEFICIENCY OF VITAMINS :

VITAMIN  
A

SKIN DULL,  
AGING

Vitamin A which also refers to the "Retinol" is essential for skin and body nourishment. The deficiency of vitamin A may lead to imbalances in the skin related issues such as, aging, dullness, fine lines etc.

VITAMIN  
D

BONES/  
RICKETS

Vitamin D mostly affects the health of the bones. The deficiency of vitamin D will lead to ~~bone~~ weak bones and chronic deficiency may result into "rickets".

VITAMIN  
E

HAIR, NAILS,  
SKIN RELATED  
ISSUES

Vitamin E mostly affects the skin, hair and ~~nails~~ nails. The deficiency

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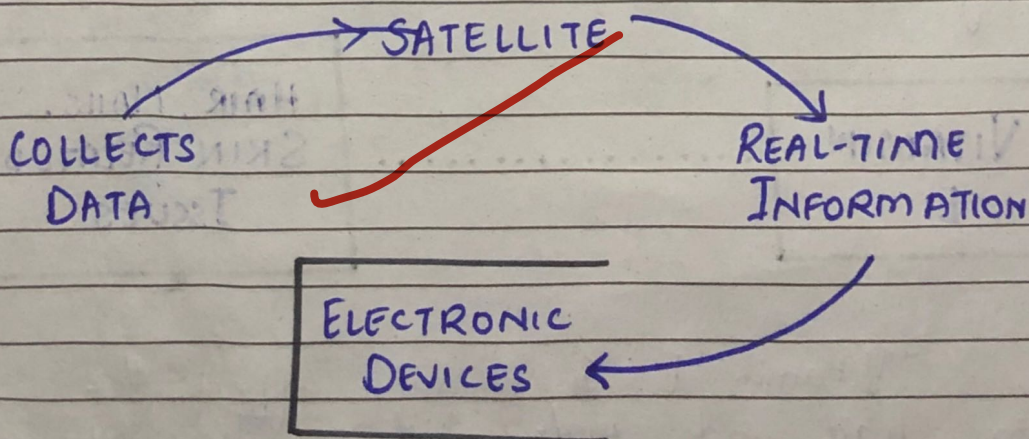
of vitamin A will result in the dryness of skin, hair and nails.

d. Discuss the working of GPS. What is fiber optic? How 2D and 3D locations are measured by satellites?

## GPS - GLOBAL POSITIONING SYSTEM:

"GPS" stands for Global Positioning System. It refers to the phenomenon of tracking and analyzing of different data and the process it to represent it in useful information. One prominent example is "digital maps" in the electronic devices.

GPS collects the data of routes through the satellite, and process it and then represent it in the form of maps.



## FIBER OPTICS :

Fiber Optics is the form of cable that is used for the transfer of data, signals, or electronic current from one place to another. The fiber Optics is different from other ~~for~~ regular kinds of cables or wires. ~~Because~~ it is made up of glass that increases its efficiency.

The fiber optics works on the phenomenon of interior refraction. This methodology of transfer of data or electronic current without any loss of delay.

For instance, it is ~~used~~ widely use ~~to~~ for internet connection throughout the globe.

## 2Ds AND 3Ds LOCATIONS MEASURED BY SATELLITES :

### 2D. LOCATION :

The 2D location is captured by satellite using image capturing. Satellites capture numerous images and then ~~convert~~ it to high

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Definition Resolution. This helps to understand or locate the information or ways on the earth.

### 3D LOCATION :

The advance form of location is 3D location that is introduced recently. This 3D location in which it shows the streets, landmarks and even the building as it is. The 3D location which is by "Google maps" is obtained by using 360° camera. This camera was moved throughout the streets placed on a vehicle that recorded the data in pictorial form. and ~~sent~~ fed it into the satellite.

Hence, through this methodology 3D locations are measured by satellites.

good answers overall!!!!