

Q. Define Satellites. Its types and launching principle

Satellite

"A revolving object around any planet, known as satellite."

A satellite is a round object that revolves around the Earth or any other planet.

Types of Satellite

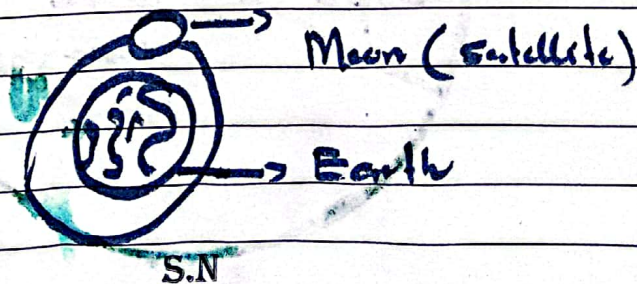
Two types of satellites are as follows:

a) Natural Satellites

"Satellites that are naturally revolving around planets, called natural satellites."

Naturally revolving satellites around planets are called natural satellites.

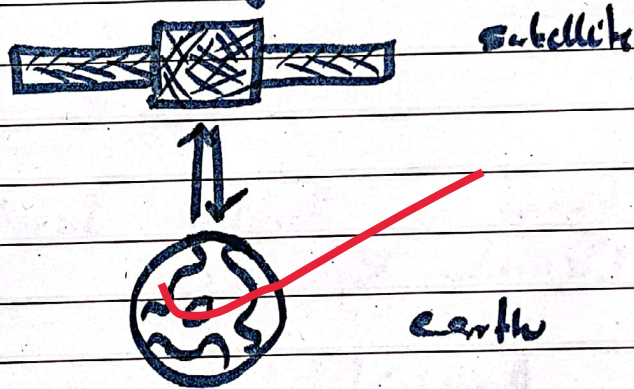
e.g. Moon around earth



b) Artificial Satellites

'Satellites that are artificially revolving around planets, etc called artificial satellites.'

Man-made satellites sending around any planet, known as artificial satellites.
 e.g. geo stationary satellite



launching of a satellite

A satellite is launched at two points:

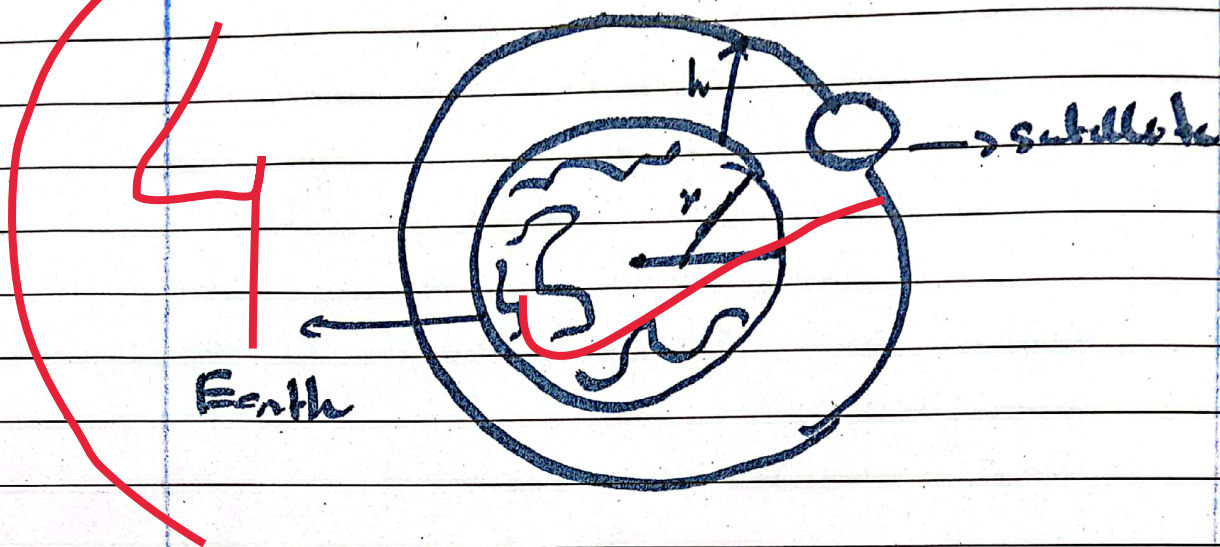
i) Critical speed

A satellite requires minimum speed to move around the planet.

ii) Centrifugal force

A satellite requires

force to make an object revolve around the planet.



launching of a satellite

Qb) What is Artificial Intelligence (AI)?
Describe Robotics

Artificial Intelligence

"A computer based machine that uses human skills, known as Artificial Intelligence."

Artificial Intelligence is a computer machine. It works as human does. Thus, AI uses human intelligence to work responsibly.

Ex- "Chat-GPT is a modern tool of AI."

Robotics

"A man-made machine uses human intelligence to operate in several fields, known as Robotics."

Robotics are machines uses human intelligence to operate certain tasks.

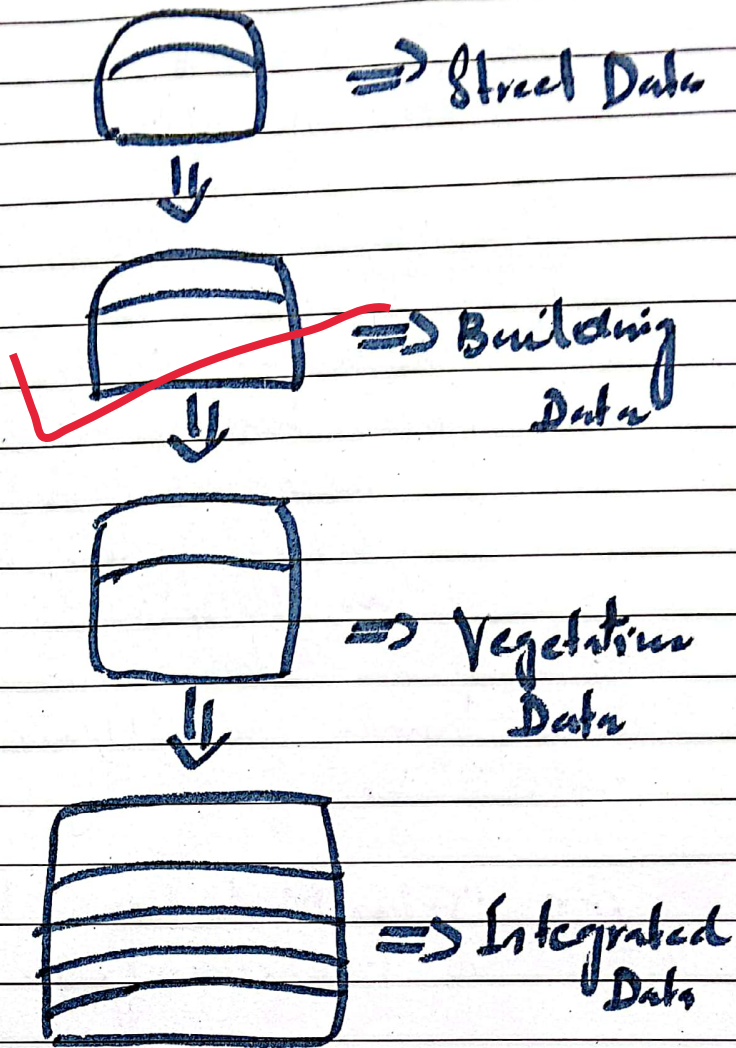
Ex "Elon Musk has introduced a robotics wife."

Q 6) Describe GIS. Its types and advantages.

Geographic Information System (GIS)

"GIS is mapping and analyzing tool."

GIS is a process of mapping and analyzing information of things happening on the Earth.



~~CIS - Operation~~

Types of GIS

Following are types

of GIS:



Desktop GIS

Webbased GIS

Geo browser

i) Desktop GIS

A desktop GIS is mapping

information GIS.

e.g., commercial and educational

ii) Web-based GIS

A web-based GIS is an online GIS operation. Data download does not require.

e.g., Office browser

iii) Geo-browser GIS

A Geo-browser GIS is the most popular on Earth.

e.g., google

Advantages of GIS

Following are advantages:

सिद्धांत
प्रमाणित है

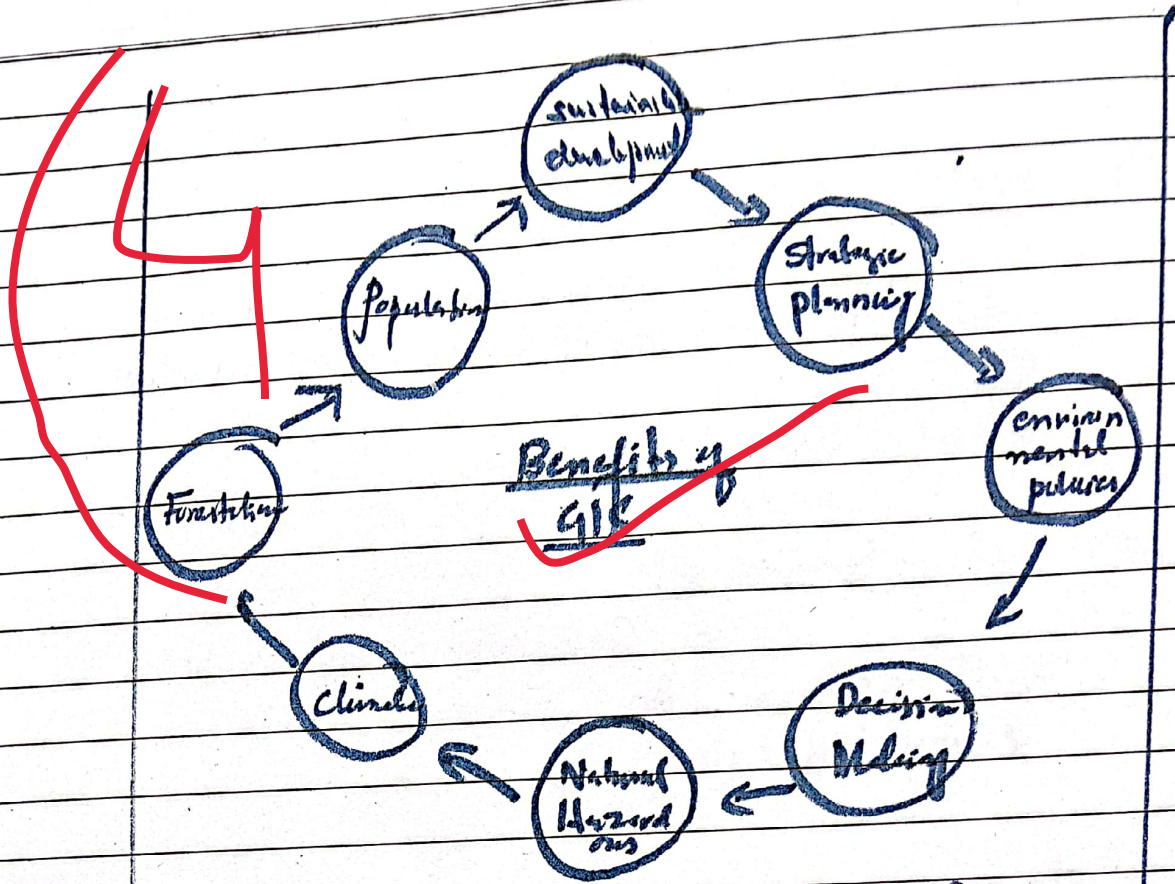
i) GIS is used in geographic decision making system support (GDSS).

ii) GIS is used in identifying natural hazardous and climate changes.

iii) GIS is also helpful in sustainable development, leads to strategic planning.

iv) GIS is helping in framing better environmental policies.

Further, a diagram shows:



Qd) What do you know about Malaria?

Malaria

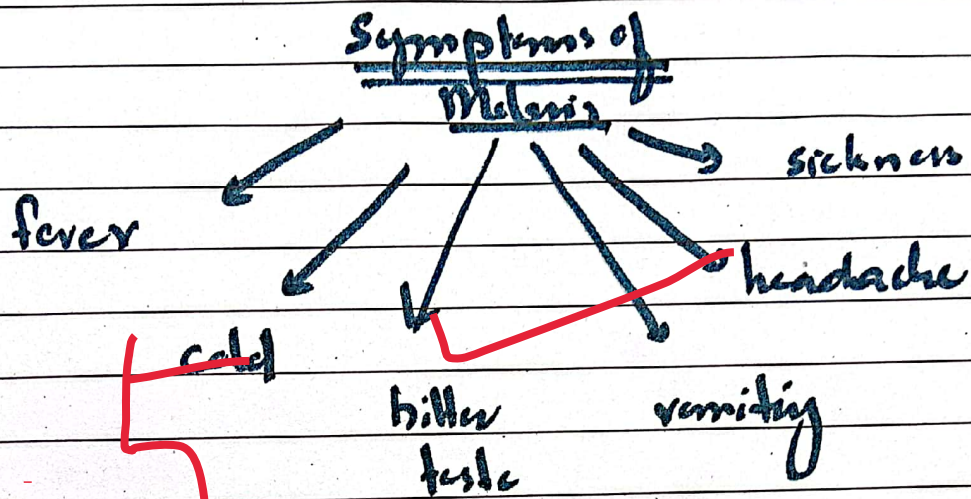
"Malaria is a disease that makes person ill due to bite of mosquito."

Malaria is a parasitic disease. It is caused by bite of female 'Anopheles' mosquito.

Symptoms of Malaria

A malarial infected person feels fever with chills, headache, vomiting, bitter-taste, feels

Sickness etc.



Diagnosis of Malaria

First diagnosis of malaria is done through malarial parasite test. If results come positive, the patient is treated by certain anti-biotics.

Prevention of Malaria

A person can be prevented from malaria by adopting certain measures such as using spray to kill mosquitoes and using nets while sleeping.