

GENERAL SCIENCE AND ABILITY

Q: Differentiate between the following:

(i) Microscope and Telescope

Mic^{ro}scope

Telescope

- It is used for obs-
erving distant image ^{and} magnifying distant images
magnifying images of heavenly bodies i.e.
of tiny objects stars and planets.
- In this case, object is placed within the focal length of convex lens.
- It produces a larger version of the actual image.
- It is used for observing distant images magnifying distant images
magnifying images of heavenly bodies i.e.
of tiny objects stars and planets.
- In this case, the object is placed beyond the focal length of objective lens and has small aperture.
- It produces a smaller version of the actual image.

Add atleast 5 points in a

difference qs in GSA

ii) Antibodies

- They are effective against bacteria, viruses, or other chemicals.
- Antibodies protect the body against
- They are effective against bacteria only.
- They kill and inhibit the growth and

Antibiotics

diseases.

- They are produced by the immune system in response to foreign substances.
- The development of bacteria drugs that inhibit growth of bacteria.

iii) Battery

- A combination of two or more cells makes a battery.
- A cell is a unit of positive and negative electrodes.
- They have larger and higher capacity and lower capacity.
- It stores electrical energy and can be charged.
- It converts chemical energy into electrical energy.

iv) Isotopes

- Isotopes are different atoms of the same element.
- Isomers are different molecules of the same compound.
- They differ from each other due to the number of neutrons.
- They differ from each other due to arrangement of atoms.

- Isotopes of a single element have the same chemical form. Isomers with the same element have the same chemical behaviour, but differ in both physical and chemical properties.

v) Sedimentary Rocks

Metamorphic Rocks

- They are formed by sediments derived from igneous and metamorphic rocks and deposited by various agents.
- They are mostly crystalline in nature.
- They contain fossils. e.g: coal, oil etc. e.g: Chalk, rock salt
- They do not survive in these rocks. e.g: slate, quartz

(vi) Insulin

Glicagon

- It is a hormone secreted by beta cells of pancreas.
- It is a hormone secreted by alpha cells of pancreas.

- It is secreted in res. • It is secreted in response to high blood sugar level. low blood sugar level.
- It makes muscle and fat cause the liver to release stored glucose in the form of blood glucose from its cells into the blood.

vii) Renewable sources of energy Non-Renewable sources of energy

- These are resources which get replenished and are restored naturally in nature.
- They are also called inexhaustible resources.
- They are environment-friendly e.g: air, wind, solar water.
- They cause pollution. e.g: minerals, fossil fuels