

Date: ___/___/20__

MON TUE WED THS FRI SAT
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NoA mock-1

Paper: GSA

Part - II

Section - I

Q. NO. 2
(c)

COP27 and COP28 both are international climate meetings under the control of United Nations.

(1) COP27:

COP27 conducted in Egypt in 2023, leaders from all nations attended the conference it had the following goals:

- (1) maintaining global temperature below 1.5°C
- (2) Allocation of loss and damage funds
- (3) Re-conducting the meeting in Abu Dhabi UAE.

(2) COP28:

COP28 conducted in Abu Dhabi in 2024.

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COP 28 has the following goals:

1. Shifting towards re-newable energy
2. Providing us \$100 billion loss and damage funds to underdeveloped nations in the shape of aids, investment in clean energy so on and so forth
3. Maintaining the global temperature

(a)

Climate and Environment are two different words having profound variations.

Firstly, Climate refers to the weather condition of the Earth. Secondly, environment refers to everything around us. The following are instances of environment:

- ① Atmosphere
- ② Hydrosphere
- ③ Lithosphere

Causes of air pollution in Pakistan:

There are several causes of air pollution in Pakistan:

- ① **Solid wastage:** in Pakistan there is

no proper management to handle huge amount of solid material, lack of capability of the management to dispose the solid waste from urban, rural and forest regions have contributed in air pollution in Pakistan.

(2) Emission of CO₂:

Huge amount of CO₂ has been emitted on daily basis. The administration has failed to reduce diesel cars, bikes and hydrocarbon based factories and industries. Consequently, these all contribute in the emission of CO₂ that destroys the quality of air.

(3) Wildfires:

massive wildfires in Pakistan have been spoiling the quality of air. For instance: wildfire of Kou-e-Saliman in Baluchistan greatly contributed to pollute the air.

(b)

Vitamins play a key role in human body. Vitamins have been

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Found in various materials. These materials include meat, grain, eggs, honey, dates, dry fruits and wet fruits. Also, in vegetables vitamins have been found in huge quantity. There are several types of vitamins:

Vitamin A, B, C, D, E these all tremendously help in the human body.

Vitamins and their role in human body:

- maintaining balance of the body
- Helps to keep skin fresh and healthy
- Helps to reduce hair falls, nails problems
- Provides energy to human body
- Fulfills the basic needs of human body

(d)

Active and Passive sensors are being used to trace and locate something. Active sensor emits energy so as to capture images, trace and locate something. On the other hand, passive sensors reflect

energy so as to get access to target.
Usage of Active and passive sensors in G.I.S:

Active and passive sensors are installed on air balloons, airplanes and satellites to capture images and location of place or something.

Q. NO. 4
(a)

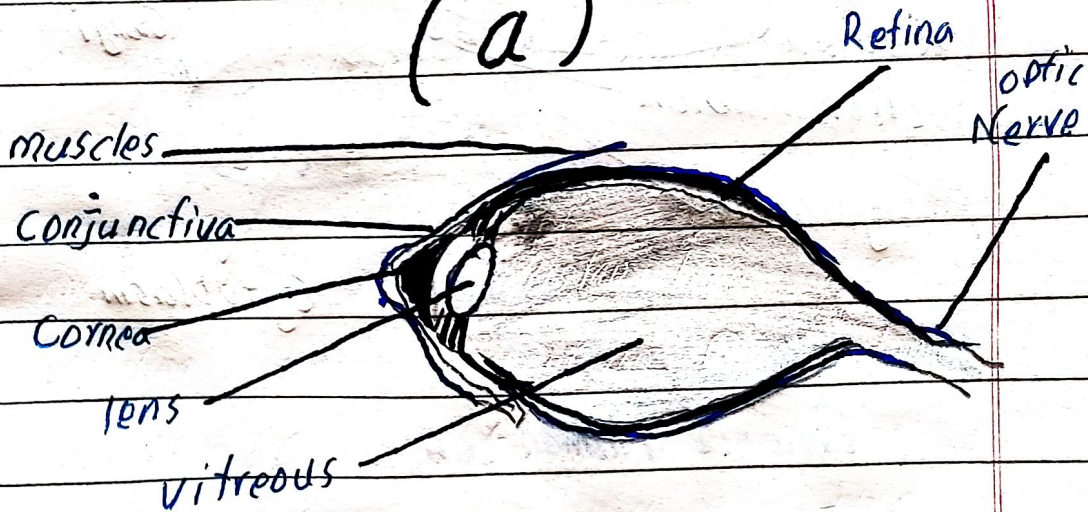


Figure 0.1 Human eye

Correction of myopia and Hyperopia:

myopia refers to nearsightedness and Hyperopia means farsightedness. These both can be corrected with glasses, contacts or LASIK surgery.

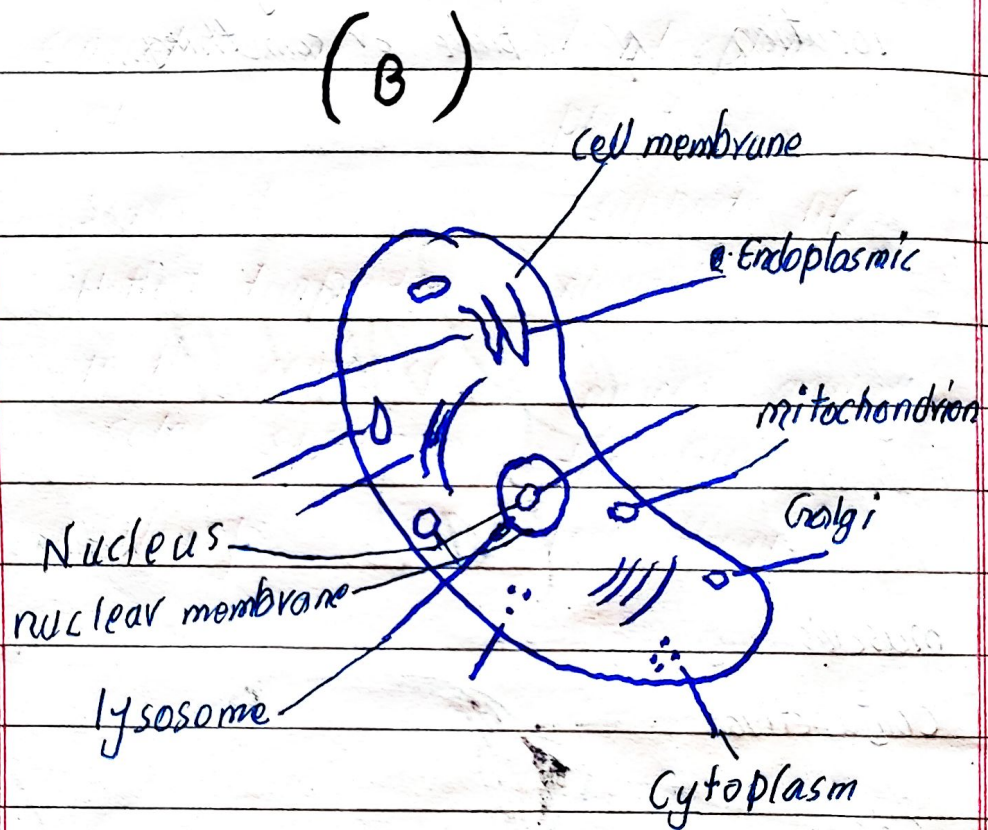


Figure: 2 Human cell

Different units of Human cell:

- (1) **Cell membrane:** Outer region of the cell.
- (2) **Nucleus:** Control the main region of the cell.

3. Mitochondria: Powerhouse
4. Golgi: Proteins transportation
5. Ribosomes: Sites of Protein synthesis

(c)

Galaxies refers to collection of stars, dark matters, dark energy, dusts and interstellars. According to astrologists there are billions of galaxies in the space.

Examples: milky way and Andromeda

Types of galaxies

① Spiral ② Elliptical and ③ Irregular galaxies

Galaxies are moving, the light from galaxies often shows a redshift as it moves.

Hubble's law: ascribed that galaxies move away.

(D)

Compare main parts of Sun and Earth

SUN	Earth
Core, radiative zone and convective zone	Atmosphere, Hydrosphere and lithosphere
Star	planet
Source of energy	supports life
Hottest temperature in the center of solar system	Normal
Heavy	moves around the sun less Heavy

Figure 0.3 variation table

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Section-II

Energy is the capacity to do work. It is a scalar quantity and is conserved in an isolated system. The SI unit of energy is Joule (J). Energy can be stored in various forms such as kinetic energy, potential energy, and thermal energy. The total energy of a system remains constant if there is no external force acting on it.

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