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Name: Rahmat

Paper: GSA

NOA mock-1

Insufficient length
~~Insufficient headings~~
Diagrams are neat
Improve paper presentation

## 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 1.5c
(2) Allocation of loss and damage funds
(3) Re-conducting the meeting in UAE.

(2) COP28:

COP28 conducted in Abu Dubi in 2024.

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COP 28 has the following goals:

1. Shifting towards the renewable 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 followings are instances of environment:

① Atomosphere
② Hydro sphere
③ Litosphere

**Causes of air pollution in Pakistan:**

There are several causes of air pollution in Pakistan:

① **Solid wastage:** In Pakistan there is

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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 $CO_2$:**

Huge amount of $CO_2$ has been emit 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 $CO_2$ that destorys the quality of air.

(3) **Wildfires:**

massive wildfires in Pakistan have been spoiling the quality of air. For instance: Wildfire of Koh-e-Suliman in Baluchistan greatly contributed to polluate 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 quality. There are several types of vitamins:

Vitamin A, B, C, D, E these all tremendously play roles 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
- Fulfils 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

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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 airballons, airplanes and settlites to capature images and location of place or something.

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# Q. NO. 4

## (a)

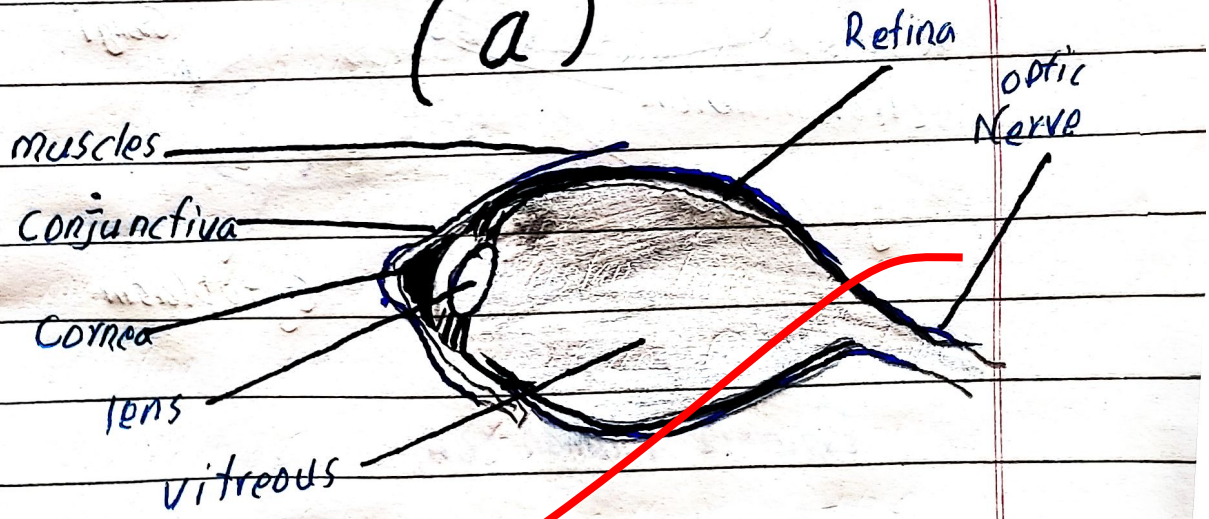


Figure 0.1 Human eye

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## Correction of myopia and Hyperopia:

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

(8)

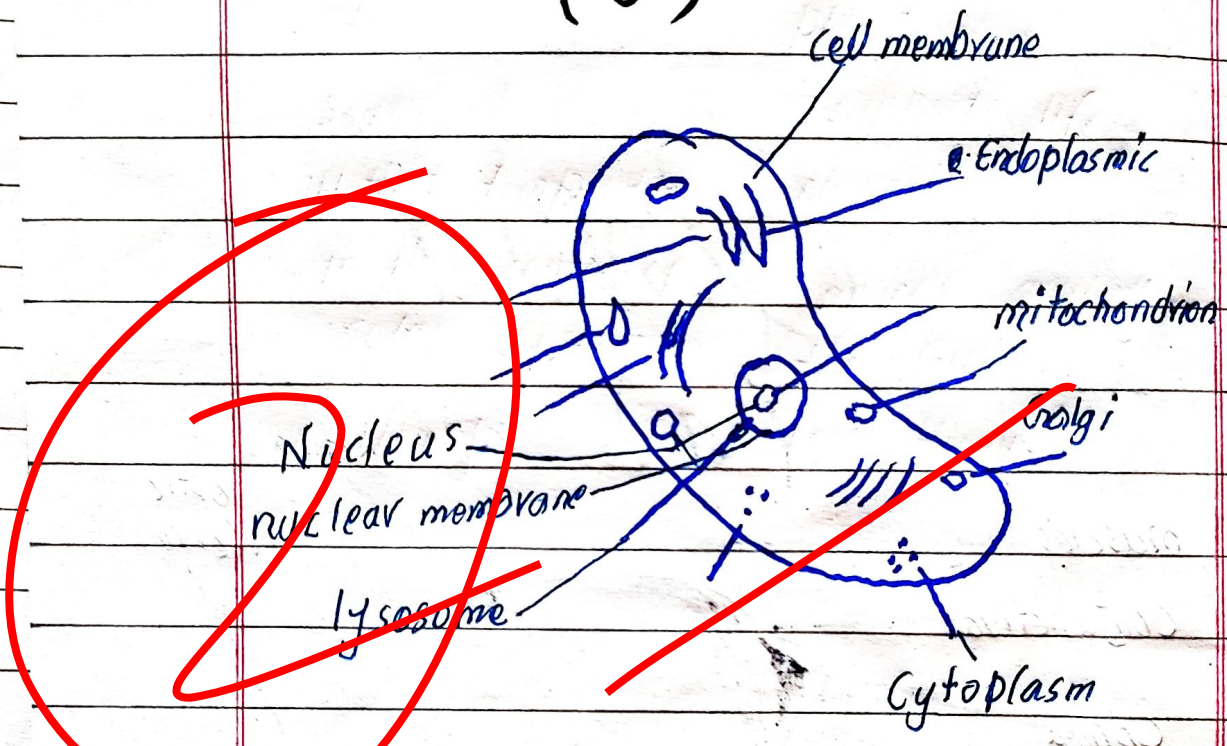


Figure:2 Human cell

## Different units of Human cell:

(1) **Cell membrane:** Outer region of the cell.

(2) **Nucleus:** Control the main region of the cell.

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3. Mitochandria: Powerhouse
4. Golgi: Proteins transportation
5. Ribosomes: Sites of Protein sythesis

(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: mitky way and Andmendra

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

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(D)

Compare main parts of Sun and Earth

| Sun | Earth |
| --- | --- |
| Core, radiative zone and convective zone | atmosphere, Hydrosphere and litosphere |
| 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