

## part: II

a Pakistan suffered a loss of \$40bn due to heavy floods of 2022. In this context climate finance in the central question for developing countries. Discuss in the light of cop-28 going to start in UAE.

### A Climate. Pakistan Advocating for climate justice.

Pakistan has been at the forefront of advocating for climate justice and has played a leading role pushing for the establishment of the fund for loss and damage. The country has emphasized the damage caused by climate-induced disasters, such as the catastrophic floods that resulted in significant economic losses.

The consensus decision to establish this fund at cop27 is a momentous achievement, especially for developing countries that have been demanding such a fund for the past 30 year. Pakistan, as the chair of the group of 77 and china, has been instrumental in galvanizing support for the establishment of this fund and highlighting the critical role of developing countries in advocating for climate justice and financial assistance to address loss caused by climate-induced disasters.

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Q Distinguish water-soluble and fat soluble vitamins. Give example of diet containing different vitamins

Ans.

**A Water-soluble vitamins:**

- 1 Vitamin C (Ascorbic acid)  
Examples: Citrus fruits (Oranges, lemons), Strawberries, bell peppers.
- 2 B1 (Thiamine)  
Example: whole grains, pork, legumes.
- 3 B2 (Riboflavin)  
Dairy products, almonds, mushrooms.
- 4 B3 (Niacin)  
Example: Meat, fish, peanuts, whole grains.
- 5 B5 (Pantothenic acid)  
Avocado, yogurt, broccoli.
- 6 B6 (Pyridoxine)  
Chicken, turkey, bananas, potatoes.
- 7 B7 (Biotin)  
Egg, nuts, Sweet potatoes.
- 8 B9 (Folate/Folic acid)  
Leafy greens, beans, citrus fruit.
- 9 B12 (Cobalamin)  
Meat, fish, dairy, fortified cereals.

**Fat-soluble vitamins:**

- 1 Vitamin A (Retinol) Carrots, Sweet potatoes,

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- 2 Spinach, liver
- 2 Vitamin D.  
Example: Fatty Fish. Fortified dairy.
- 3 Vitamin E (Tocopherol)  
Nuts (alm. salmon) + Seeds, spinach
- 4) Vitamin K.  
Example: Leafy greens, sprouts.

Q3 Explain eye structure?

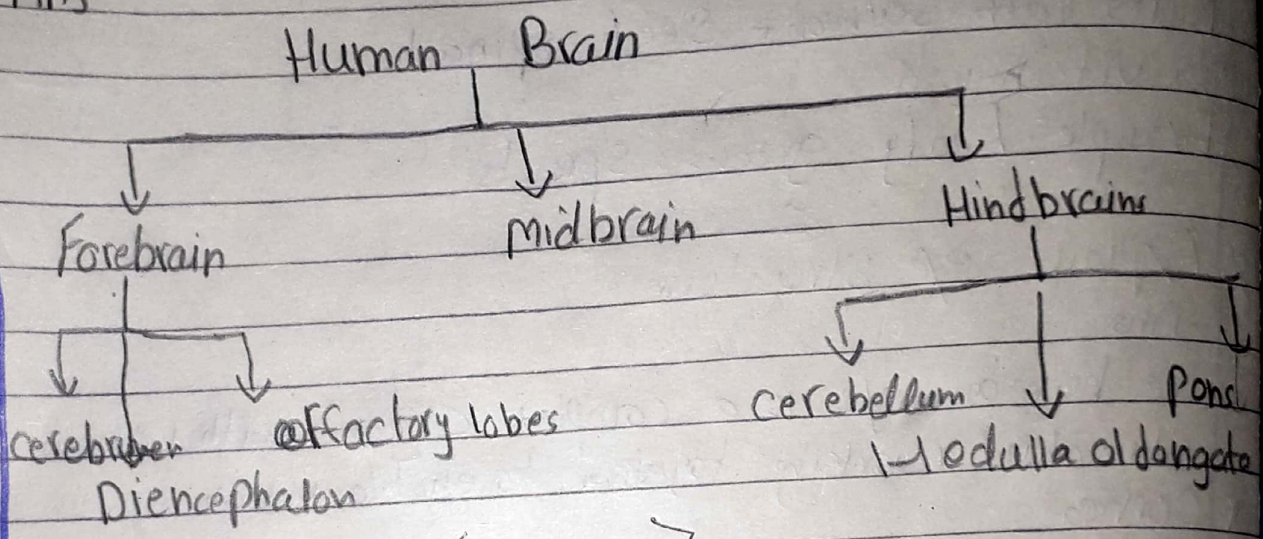
Ans  
The human eye is a complex organ with various structure working together to enable vision.

- 1) Cornea  
The transparent front part of the eye that covers the iris and pupil.
- 2) Iris:  
The colored part of the eye that controls the size of the pupil.
- 3) Pupil  
The black circular opening in the center of the iris.
- 4) Lens: A crystalline structure located behind the iris
- 5) Retina.  
The innermost layer of the eye that contains photoreceptor cells responsible for detecting light signals to brain
- 6) Optic Nerve
- 7) Vitreous Humor
- 8) Sclera
- 9) Choroid:
- 10) Aqueous Humor.

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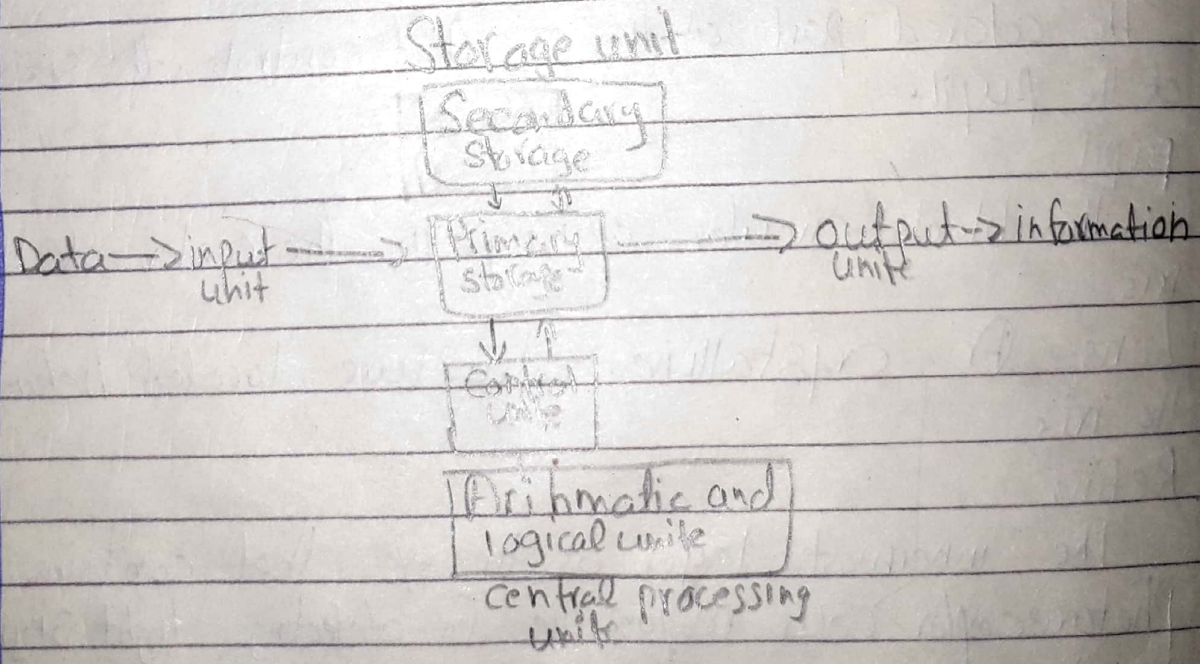
Qd:  
Draw a flow chart of different parts of Brain.

Ans



a Q. No 5

a) Draw a block diagram of input and output devices.



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Qb.

Define Optics: How does an optical Fiber works

Ans

**Optics:**

A science that deals with the nature and properties of light and the effects that it undergoes and produces.

**How Does optical Fiber works:**

Fiber optics, or optical fiber, refers to the technology that transmits information as light pulses along a glass or plastic fiber.



Qd

Distinguish GPS &amp; GIS.

Ans

(1) GPS: (Global Positioning System)

A device for measuring geographic coordinates at any location on the earth.

(2) GIS: (Geographic Information System)

A database for maintaining and analyzing spatial features and the relationships between features as they are defined through geographic coordinates or measurements.

## Section II

Q6:-

So, the length of the longer piece would be 40.

The total length of the fence is 300 feet

So we can set up an equation (N) Nadeem Stationers

The total length  
Combining like terms

$$[5x = 300]$$

Now, solve for (x)

$$x = \frac{300}{5}$$

$$[x = 60]$$

So, the shorter piece is 60 feet long, and  
the longer piece is  $(4 \text{ times } 60 = 240)$  feet long.

Q1) A cricket team won 60% of the total matches it if lost 24 matches in all and no matches were draw, Find the number of matches played during year.

A) So, we can set up the equation

$$0.6T + 24 = T$$

Now solve for (T)

$$[0.4T = 24]$$

$$[T = \frac{24}{0.4}]$$

$$[T = 60]$$

Therefore, the number of matches played during the year is 60.

Q6) Qd

$$[\frac{3x+c}{5} = \frac{2x+6}{4}]$$

$$[5(3x+c) = 4(2x+6)]$$

$$[15x+5c = 8x+24]$$

Now, solve for (c)

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$$\{5c = 24 - 8x\}$$

$$c = \frac{24 - 8x}{5}$$

Now substitute  $\{x=3\}$  back into the expressions for the number

$$\text{First number} = 3 \times 3 = 9$$

$$\text{Second number} = 2 \times 3 = 6$$

So the two numbers are (9) and (6)

