

# Part - II

(1)

## Section - I

Question: 3

(a)

### Climate Finance from COP-27-28

#### Introduction

Climate finance is basically a mechanism of repatriation from carbon emitters to the developing countries. Which are facing calamities with the disastrous events of climate change. The discussion and materialization of climate fund became possible after the strong advocacy from climate prone countries, especially Pakistan.

#### Causes of Climate Change



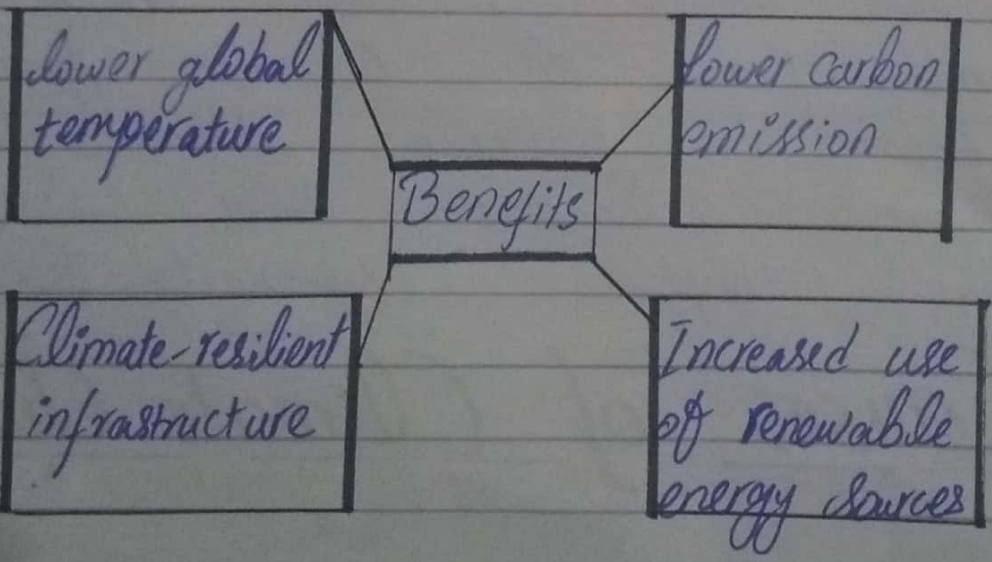
Excessive use of fossil fuels

Un-checked industrialization

In-co-operate attitude of developed nations

The central component in all the fossil fuels is Carbon.

# Benefits Associated With Climate finance





## Lower Carbon Emission

It was pledged during the COP-28 to lower the carbon emission, thereby, reducing the phenomenon of climate change.

## Lowering Global Temperatures

The overall global temperatures has increased since the industrialization and thus increasing the global temperature by restricting the infrared radiation. Which was also promised during COP-28 objectives.

## Climate Resilient Infrastructure

The fund was established as reparation for developing countries to build climate resilient infrastructure, in order to

avoid further devastation

## Shift to Renewable Energy Sources

To reduce the effects of climate change, by reducing carbon emission for repairing ozone layer, it was pledged to shift towards renewable energy source and developing country will be aided via climate finance.

## Conclusion

Thus the establishment of climate finance during COP-28 is a progressive step towards lowering the global temperature, via reducing carbon emission and shift toward renewable energy sources.



# Question: 3

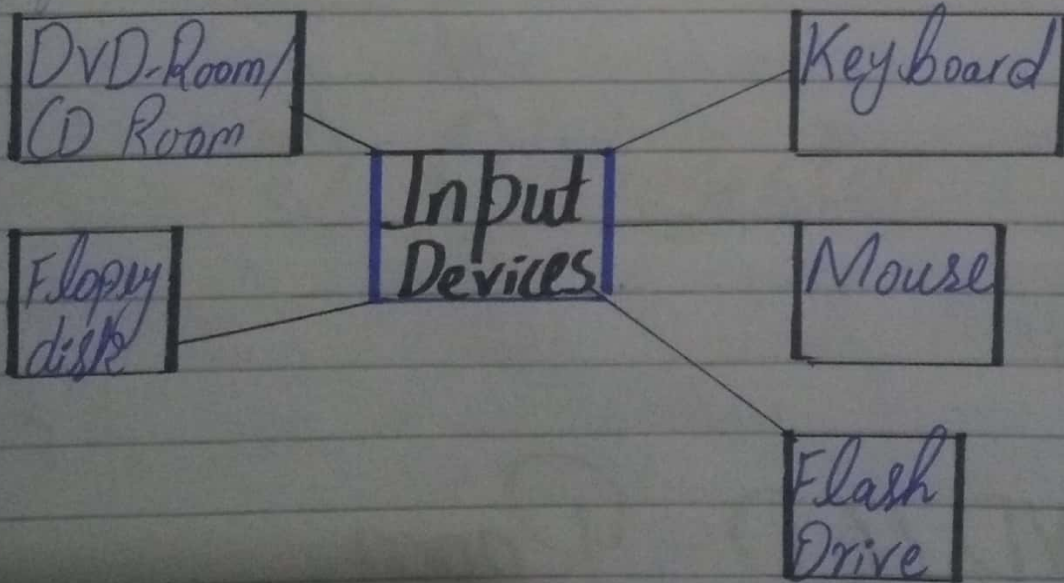
5

(b)

## Input - Output Devices

### Introduction

The human made machine for the purpose to ease the human working consists of many out-put as well as out-put devices. Which vary work to enhance human working. Such devices ranges from keyboard, mouse, monitor, flash drive, DVD Drives etc.



Keyboard: It is being an input device of computer, performs the functions as dictated via the external person.

Mouse: The essential part or input device of computer, which play crucial role in the function of computer via external directives and apply them on computer for the asked operation.

## Flash Drive / Portable Device

The external data drive is also an input device of the computer. Which is used for copying different things in soft form from both the computer and the drive itself.

## DVD / CD - Room



An input device of the computer, which has the capacity of reading DVD and CD and shows results via output devices.

## Output Devices

↓  
**Monitor**

↓  
**L.E.D**

↓  
**Projector**

Monitor; Display the results of the computer operation.

## L.E.D & Projector

Both have the ability to interpret or show the desired operation as asked by the computer through external commands.

## C.P.U AS Brain

Central-Processing Unit (CPU) is basically regarded as the brain of the computer. Due to presence of main functioning feature inside it like RAM, ROM and processor.

### Conclusion

Thus both input and out-put devices are essential for computer to perform the functions. As the CPU being acting like a brain of the computer.





# Question: 3

(9)

(d)

## Causes of Water-Pollution

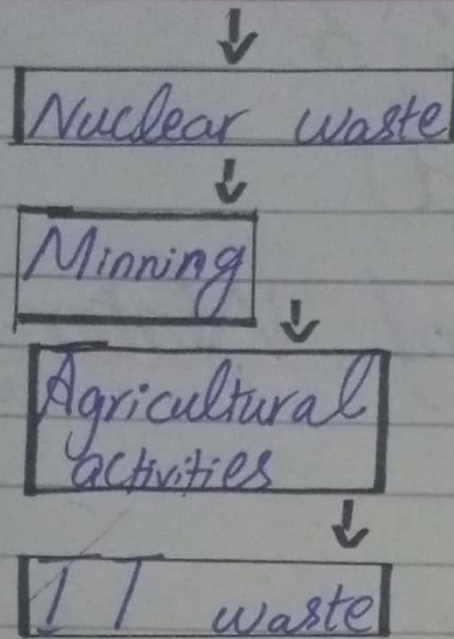
### Introduction

Water being an essential component of life is now under threats via pollution through ways like industrial wastes, leakage in sewerage system, nuclear wastes, mining activities as well as un-checked or leakage of diesel/petroleum during shipping like activities. What will erode the basic human need, if not properly take care off.

### Causes Includes

↓  
[Industrial waste]

↓  
[Leakage in Sewerage]



## Industrial Waste

Industrial waste, when remains unchecked and un-treated, is through in rivers, streams, ocean etc caused water pollution with disastrous chemical composition

## Leakage in Sewerage

In industrial as well as in domestic sewerage leakage has caused the mix of drainage and sewerage water with fresh water and is causing water pollution.



## Nuclear Waste

Nuclear waste, when is not deposited with great care, has the capacity of causing water pollution.

## IT Waste

The chips, and other part of electronic waste when flush into water, have the energy or chemical of polluting water.

Minning When rocks waste is flush into fresh water or water reservoir have the ability of creating water pollution with dangerous chemicals.

## Conclusion

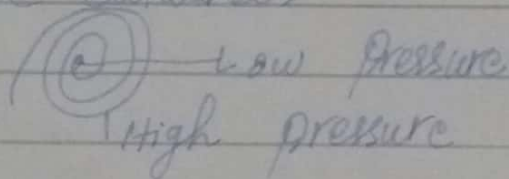
In short, water pollution causing or happening with all the above mentioned sources are becoming dangerous for water sources, an essential need of human.

## Question 4

(a)

### Cyclone And Tornadoes

Both are the same with different names in different areas. In which a spiral air within low pressure is surrounded by high pressure outwards.



### Hypocenter & Epicenter

The origin of earthquake inside earth is called hypocenter.

The point on the surface of earth vertically from origin is called epicenter.

Hypocenter



## GPS And GIS

Geographical positioning system for locating or having coordinate of certain position.

Geographical Information System is satellite based technology for different purposes.

## RAM And ROM

Random Access Memory can be accessed at anytime and is not stored permanently.

Read-Only Memory can be stored permanently and can't be destroyed.

Question: 4  
(b)

## Volcanic Eruption

An eruption from an opening of earth crust, through which gases, molten rock materials, lava, steam etc. erupt outwards.

The vent opening is called  
vent.

## Magma

It is a term denoted to molten rocky materials and other such materials inside the earth.

## LAVA

Once magma comes out of the vent from the earth, then it is called lava.

### Types of LAVA

Acidic  
LAVA

Basic  
LAVA

Volcanic activity is basically occurs at relatively weak



area of rocks through vent.  
 It is an example of  
 exogenic force. (A force inside  
 the earth the created pressure.)

## Conclusion

Thus volcanic eruption occurs  
 in weak rocky part of  
 the earth and ultimately  
 the magma, which comes  
 outside vent becomes lava and  
 has some repercussions as  
 well as benefits for us.

## (d) Balanced Diet

### Introduction

The human dependency on  
 diet is as essential as  
 on breathing for living.

But, the absence of complete diet has caused many times the death of many more people which basically misses the basic ingredients of diet.

## Ingredients

Calories

↓  
Proteins

↓  
Glucose

↓  
Vitamins

Calories; There are 2350

Calories are required for a balanced diet. Without which a diet is not called a health and balanced diet.

Similarly, Proteins, Glucose and Vitamins are essential components of a balanced diet.



# Purpose of Balanced Diet

The basic purpose of balance diet is to maintain the good health.

Variation; It varies as per the age of receiver. A balanced diet is not the same for pregnant lady and non-pregnant lady. Similarly, the diet / balanced diet of both children and older person is not the same.

## Conclusion

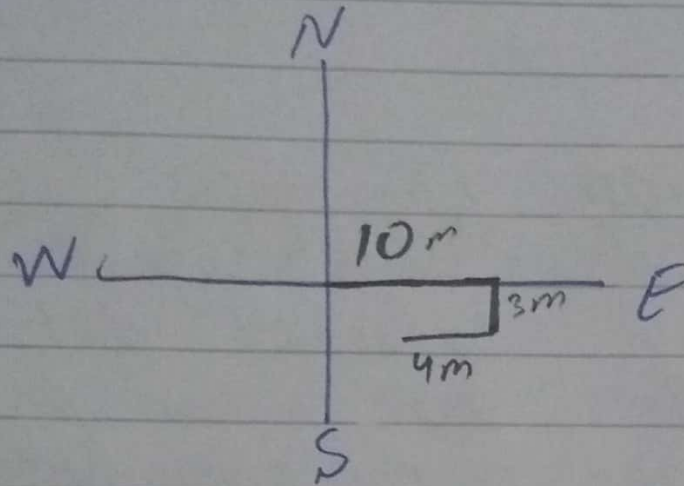
The main purpose is not eating all the time without taking necessary care, but to ensure the necessary ingredients in the diet with respect to the age of every person, to grow and survive.

Q#8

18

(a)

Given



Total distance covered in East = 10m

Towards South = 3m

Towards West = 4m

Remaining parallel to East  
 $= 10 - 4 \Rightarrow 6m$

Now

to reach starting point

3m is required upward

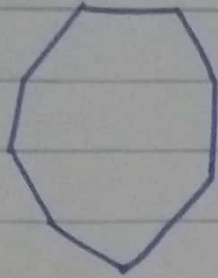
So

She is 9m away from origin.



(b)

Octagon



equal 8 sides

$$\text{Perimeter} = 8a$$

$$= 8(5 \text{ cm})$$

$$\therefore \boxed{40 \text{ cm}} \text{ Answer}$$

(c)

Given

$$\text{Green} = 6 \text{ balls}$$

$$\text{Yellow} = 10 \text{ balls}$$

$$\text{Total} = 16 \text{ ball}$$

$$P_y = \frac{I}{\text{yellow}}$$

$$= \frac{16}{10} = \boxed{1.6} \text{ Answer}$$

So 1.6 probability available  
for taking off yellow ball.

(d)

Given

MADRAS = NBESBT

indicating the very next  
alphabet so

BOMBAY = CPNCBZ

Question: 7

(a)  
i) 11, 13, 17, ... 23.

There are two series  
first  
11, 13, 17 have addition  
of 2 and square of two  
Similarly  
21, 23, 27 ... have  
the same



11, 17, 17, 21, 23 is the series

ii- 10, 28, 91, 370, ---

Here

$$28 - 10 = 18$$

$$91 - 28 = 63$$

$$370 - 91 = 279$$

So

10, 28, 91, 370, 649

(b)

Given

Total Shirts = 35

Purchased price per piece = 280

$$\begin{aligned} \text{Total purchased price} &= 280 \times 35 \\ &= 9800 \end{aligned}$$

Sale Price per piece = 308

$$\text{Total sale price} = 308 \times 35 = 10780$$

$$\text{Profit} = 10780 - 9800 = 980$$

$$\% \text{ of Profit} = \frac{\text{Profit}}{\text{actual price}} \times 100$$

$$= \frac{980}{9800} \times 100$$

$$= 10\% \text{ Answer}$$

(d)

$$\text{Average height} = 150 \text{ cm}$$

$$\text{Total boys} = 30$$

$$\text{Now total amount} = 150 \times 30 \\ = 4500$$

Now

$$4500 - 135 \text{ H65} \\ = 4530 \text{ cm}$$

$$\text{Thus Average correct mean} = \frac{4530}{30}$$

$$\approx 151 \text{ cm} \text{ Answer}$$