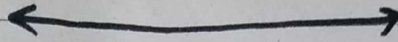


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Part - II .

Section - I

Question # 4

Answer # a

Pesticides:

Pesticides is used to kill the pests which are dangerous for the crops or plants.

Herbicides:

Herbicides are used to kill the herbs which are dangerous for the growth of plants and crops.

Insecticides:

Insecticides are used to kill

the insects found near the plants.

Ceramics:

Ceramic is a material that is neither metallic nor organic. It may be both crystalline and glassy.

Green house effect:

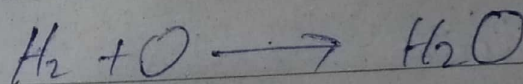
Green house effect is known as a process in which heat is trapped by green house gases near earth surface.



Answer # 6

Bonding in water molecule:

Water molecule is composed of Hydrogen and oxygen. It has following chemical formula.



Answer # c

Types of waves used in different devices

Radar:

Radar is an military device use to detect unwanted objects like planes, missiles, drones etc. It uses radio waves to operate.

Sonar:

Sonar is an device to mostly detect an obstacles. It use sound waves through reflection method.

Lidar:

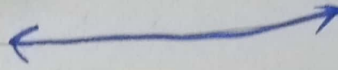
Lidar uses light waves to operate.

Mobile phones:

Mobile phones operates in every area mostly and used for communication. It uses radio waves to operate.

Thermistor:

Thermistor is an device used for resistance. It uses heat waves.



Answer # d

Definition of AI:

Artificial intelligence is the simulation of human intelligence using machines, specifically through computers.

Advantages of AI:

AI has number of advantages. some of them are:

- 1- AI detect breast cancer faster.
- 2- AI is used in the financial transactions management.
- 3- It is also being used in different medical surgeries also.

Disadvantages of AI:

- 1- It is used in advancement of different military weapons

which could be dangerous for mankind.

2 - AI is being used in Cyber attacks.



Question # 5

Answer # a

Input devices of computer:

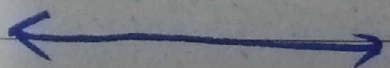
Some input devices of computer are:

- 1 - Keyboard
- 2 - Mouse
- 3 - USB
- 4 - Memory card

Output devices of computer:

Some output devices of computer are as follows:

- 1 - Monitor
- 2 - Speaker
- 3 - Printer



Answer # b

Optics:

Optics is the study of light. This field includes all those studies of electromagnetic radiations. It also includes the study of sight.

Optical fiber:

Optical fiber is the latest technology is being used for transmission and internet purposes. Its speed is much more than the usual internet transmission system.



Answer # c

Solid waste management:

Solid waste is the one of the most critical ~~net~~ problem of climate. Solid waste management is the method to manage that solid waste and protect the environment.

Some techniques used for solid waste management are as follows.

1- Open Burning:

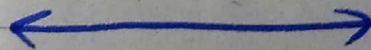
It's the most used method but it's unsafe for environment because it can create smog.

2- Sea dumping:

In this method solid waste is dumped into sea. It's unsafe for marine life.

3- Solid waste sanitary landfills:

It's also the mostly used method. It creates both the land and water pollution.



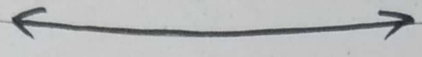
Answer # d

GPS:

GPS stands for Global Positioning System. It is used for location detection and route detection.

GIS:

GIS stands for Geographic Information System. It is used to analyze and display geographically referenced information.



Section - II

Question # 7

Answer # a

Total seats = 400

seats occupied = 325

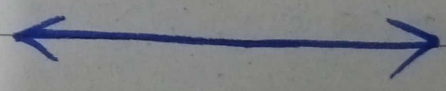
attendance = ?

sol

$$\text{attendance} = \frac{\text{seats occupied} \times 100}{\text{Total seats}}$$

$$= \frac{325}{400} \times 100$$

attendance = 81.25 %



Question #7(b)

Persons	Sugar	Days
30	40	10
80	320	x

$$10 : x = 40 \times 80 : 30 \times 320$$

$$10 : x = 3200 : 9600$$

$$\frac{10}{x} = \frac{3200}{9600}$$

$$9600 \times 10 = 3200x$$

$$\Rightarrow 3200x = 96000$$

$$x = 30$$

80 persons will take
30 days to use 320 kg of
sugar.



Question # 7(d)

radius of cylinder = 10 cm

height of cylinder = 36 cm

Volume?

Sol

$$\text{Volume of cylinder} = \pi r^2 h$$

$$= \pi (10)^2 (36)$$

$$= \pi (100) (36)$$

$$= 3600 \pi \text{ cm}^2$$

