

Fatima Riaz

#063

Mock exam

Section-I

Question # 2

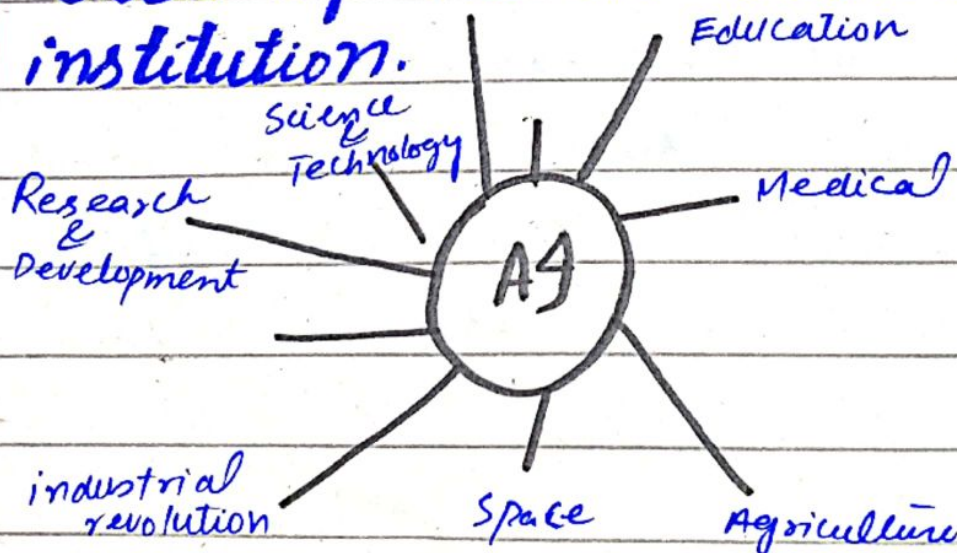
a. "Artificial intelligence is the new electricity." Justify with your opinion.

Answer:

Artificial intelligence is the modern form of technology. It is the advanced form that is used in every field of life. AI gave the new shape of technology. Through AI, it is more easy to perform their task most efficiently and easily. AI have number of tool like chat GPT, chat bot, Robotics etc. It become more easy to the logical and analytical problems. A question or problem solved

within seconds. According to my opinion, it is the shape of new world that can change the life of human being effectively. AI used in every era of life to solve challenges, diagnose diseases, enhance the efficiency of products, to govern the state with law and order. By using AI, mistakes can be minimized or finished.

Uses of AI in State's institution.



b. CPU is the brain of Computer, how it resemble with human brain in working.

Answer:

Central Processing unit is the brain of computer because it control all the function of computer. It gives information to the computer through keyboard, mouse, scanner etc then CPU read, interpret the information and give an output. Similarly, human brain is working like a CPU. Because brain is the master of all body function. The message send through nerve cell or neuron, body receive that message, and act like the instruction that is come from the brain. Brain can enhance the activity of the body and diminish its activity. Same as it is, Computer can

increase its efficiency and decrease its activity through the instruction or message that come from the CPU. That's why CPU is called the brain of computer because it is responsible all the activities of computer.

Q 2

C.

What do you mean by balanced diet? Deficiency of vit A, B, C can result into what type of imbalance in human body.

Answer:

~ Balance diet ~.

Balanced diet is defined as; diet in which all the essential nutrient, vitamins, minerals, proteins, lipids are found. In human body, two kinds of nutrient is

d.

Working of optical fiber

Working of optical is based on total internal reflection.

Total internal reflection defined as in which light rays hit into the glass wall. Some rays are reflected, and most of rays are refracted.

Then it form image. The whole process occur in glass tube. Light rays never come outside the glass.

GPS.

It is "Global Positioning System" which navigate the position of the body or place. GPS works on the basis of satellite. In one GPS, three satellite working at the spot.

How 2D & 3D location are measured by satellite.

2-dimensional and 3-dimensional location can be measured by GPS. 2D & 3D location measured, when satellite revolve and its

connected to the internet of mobile. When mobile location is switch on, then satellite recognize the area of mobile. The other satellite identify the nearest place of mobile/ user-location. The third satellite tells about the exact location of mobile or user.

Question # 3

a- Why atoms form chemical bonds?

Atoms form chemical bond to get stability. Every atom want to be stable by completing its valence shell.

An atoms complete its valence shell by duplet and octet rule and gain the stability of noble gases

Covalent bond in a water molecule.

Water molecule complete its valence shell through sharing of electron. Covalent bond is formed due to sharing of electron. So, water molecule make a covalent bond.

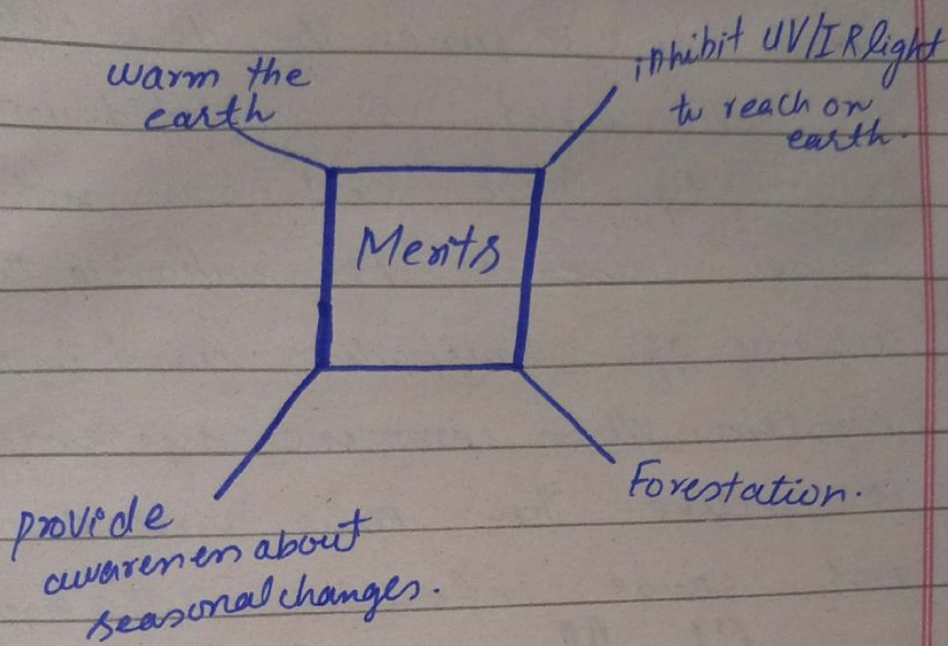
b- Doping

Doping is the process which is occur in semiconductors. When a metal is vacant with ~~proton~~ or half filled then in another circuit the metal is filled with ~~protons~~. it is called doping.

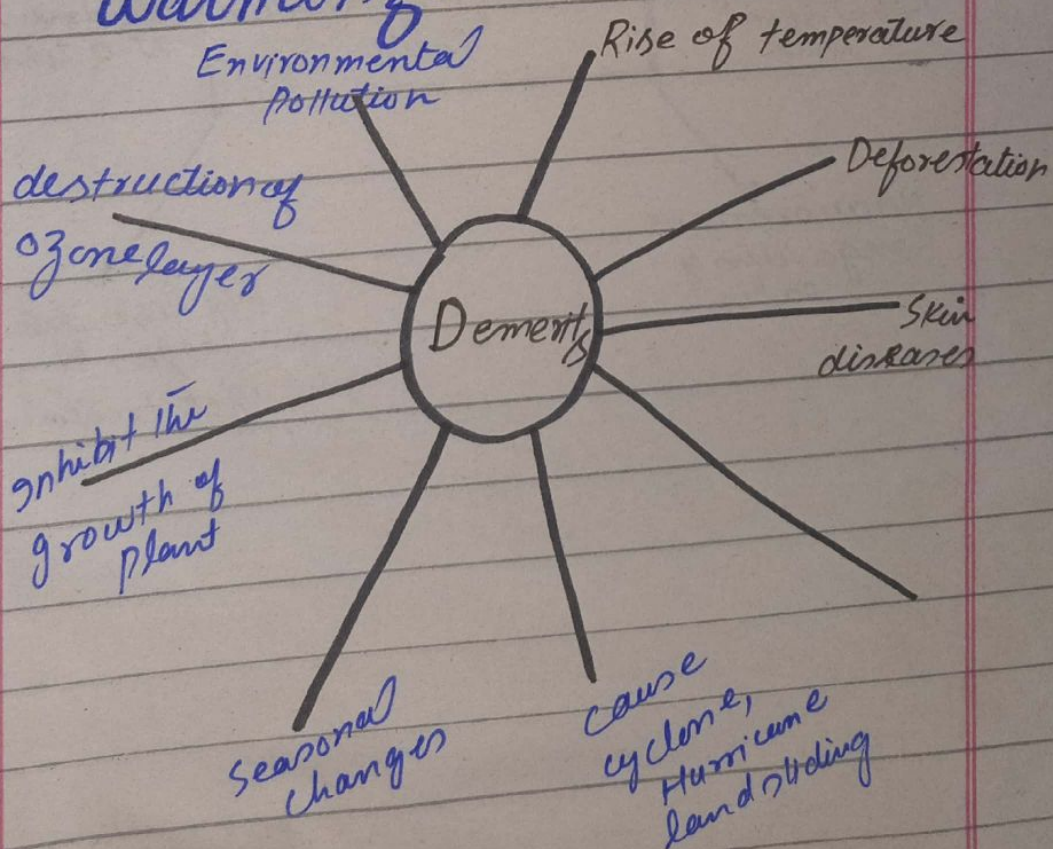
Types:-

Different types of ceramics are bone china, porcelain,

C- Merits of global warming:



Demerits of global warming.



d. Polio:

Polio is a viral disease. It is caused by a virus. It can be cured by vaccine. The dead cell of polio virus is injected into the body. These cells cannot cause disease, they enhance the activity of antibodies and immune system. When the immune system is active, then polio virus cannot cause infection in the body.

Challenges in eradicating Polio in Pakistan.

