i) **GSA**

Part

Section - 1

Question # three

1) Explain and draw the structure of the sun.

→ **Sun :-** Sun is star and 4.5 billion years ago it was yellow dwarf. A hot glowing ball that present at the centre of the solar system.

→ **Layers of Sun :-** Primirly there are three main layers of Sun.

(i) **Core :-** Core is the sun considered the billions of billions of atoms of hydrogen.

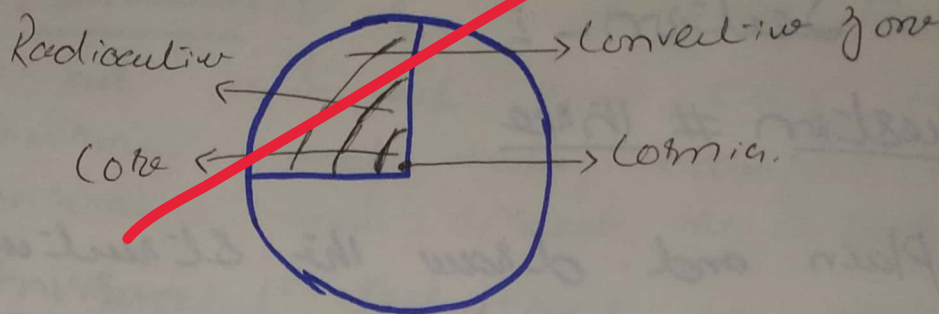(ii) **Radiactive :-** It is energy which transmits the core energy to the uper inner and outer layers of the Sun

(3) **Convective:-** it is type of current which transport the gases to the photones through convective zone.

Radiactive → Convective zone
Core → Cosmic.

what is a tsunami? how is it generated? Give examples of a few recent tsunami.

1) What is a tsunami:-

Tsunami is a waves in water body that displacement of large volume of water that caused earthquake in the earth.
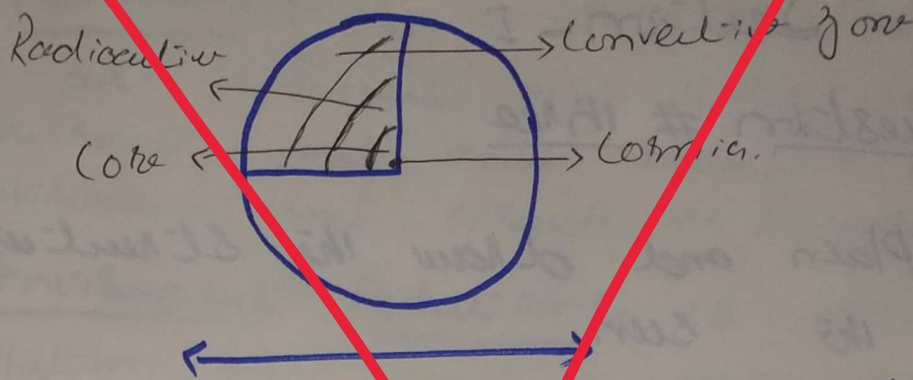
2) How is it generated?

The Sudden movement of earth generated the tsunami in the ocean floor.

3) Examples:-

(i) Pacific Ocean:-

(2)

(3) **Convective:-** it is type of current which transport the gases to the photones through convective zone.

Radioactive $\longleftarrow$ Convective zone

Core $\longleftarrow$ $\longrightarrow$ Cosmic.

(b) What is a tsunami? how is it generated? Give examples of a few recent tsunami.

① **What is a tsunami:-**

Tsunami is a waves in water body that displacement of large volume of water that caused earthquick in the earth.

(2) **How is it generated?**

The sudden movement of earth generated the tsunami in the ocean floor.

(3) **Examples:-**

(1) **Pacific Ocean:-**

③ (C) Discuss the Environment Pollution. what could be its harmful effects? give a few measures to curb it.

→ **Pollution :-** is something or particals in our environment that dirty the environment and make harmful the environment and spreads the diseases.

→ **Environment Pollution :-** is with a pollution that something make our environment harmful through air, natural gas, and fossil fuels, that present in our environment and make environment harmful. And the things or daily routine necessities that we used in our homes in daily basis ie, oil, gass that produce from automobiles.

→ **Effects of Environment Pollution :-**

→ Environmental pollution is also called the atmospheric pollution and it is related with climatic that directly effect the health of human beings.
① Asthma. ② hearing loss. ③ heart disease.
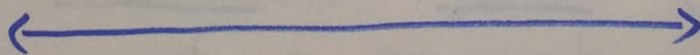④ Global warming.

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④

Question # Five

(a) Differentiate between a Eukaryotic & a Prokaryotic Cell.

① **Eukaryotic Cell:-** Are the unicellular organisms which contain single cell and these are microorganism that can not be seen through eyes.

Examples:- Ameba, Chlamadomonas, Peromacium.

② **Prokaryotic Cell:-** Are the multicellular organism that contain large numbers of cells and they are seen from an eye - they are the macroorganism.

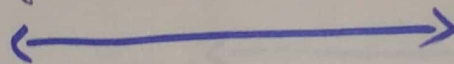**Examples:-** Human beings, Animals, insects.

(b) what is global warming? what is Kyoto Protocol?

→ **Global warming:-** is a increase of temperature in earth due to green house effect that increase of carbon-dioxide in the environment, and other pollutants.

(5) And it results from the increasing of high level of CO_2 and other gases in the environment that will leed to the climate change.

→ **Kyoto Protocol:-** it was a treaty that signed by United nations in 1992 in the framework of climate change that the developed countries will support to the effected countries of climate effected. And this agreement was signed on the developed countries.

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(C) Write a detailed note on GIS.

→ **What is GIS:-**

it is Geographic information system is a computer system that analyze and displays geographically data information.

there are five keys of GIS that included in hardware, software, data, people and methods.

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(d) Briefly describe antioxidants.

⑥

→ **Antioxidants:-** are the nutrients, such as vitamins C or E, or carotenoids, which helps to protect the cell against the damage, these are mostly found in plants food, they are needed.

Examples:-

→ Enzymes ⎤
→ Proteins ⎬ → these are the antioxidants.
→ Vitamins ⎦

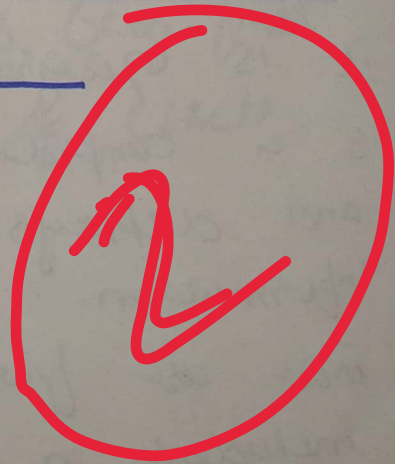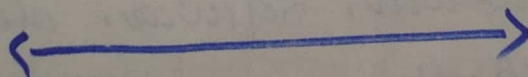←————————————→

Section - II

(a) Identify the missing:

(i) 13, 24, 46, 90, 178, ____

Ans:- 266

(ii) 5, 6, 9, 14, 21, ____

Ans:- 30

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(a)
⑦ If sum of the 3-digit number is 15. Sum of the 10th and unit digit is 12. The difference of unit digit from 10th digit is equal to 2. what is the three digit number?

Formula:-
$$S = n\left(\frac{a+1}{2}\right)$$

$$= 3\left(\frac{10+1}{2}\right)$$

$$= 3 \frac{11}{2}$$

$$= 3 \times 5$$

$$S = 15$$

(C) Diameter of a circle is 6cm. find Circumference and area of circle.

Formula:-
① $C = \pi \times d$
② $A = \pi \times \left(\frac{d}{2}\right)$

① Circumference:- $C = \pi \times 6$
$$= 3.14 \times 6$$
$$C = 18.14 \, cm$$

⑧ (2) Area → $= \pi \times (3)^2$

$= 3.1415 \times 9$

$= 28.72$ cm