Mock exam: GSA Section

Insufficient length Add headings Draw diagrams Improve paper presentation Work.on math portion too

Question 4 6.

Define the following:

pesticide, Hexbicide, Insecticide, Cexamics

and Greenhouse effect,

Pesticide:

A substance used for killing and destraying 108 any alter harmful Organisms that destroy crops/plants is called pesticida

Herbicide

s/used to get A substance which rid of unwanted Vegetation or weeds is called Herbicide.

Insecticide

A substance bised for rulling Insects is called insecticide

Greenhouse et

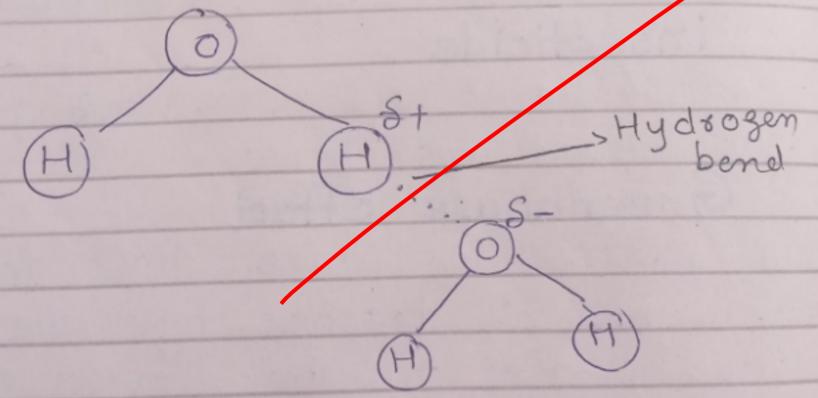
A process in which heat from Sunlight is trapped by the green house gases in the earth's surface

. Explain the bonding in water molecule.

H20 molecule is polar in nature.

If consist of two Hydrogen smalleulifation and one onygen atom. Two

Hydrogen atom are bonded with and its conexals onygen atom bent, because apart Structuro and with Hydrogen carries two unshaved it also electror pæler næture of H20 Becourse H20 more alle attract molecule form bond. each one maceule o positive associates with Hydrogen atom ed of another « Etydrogen Ozatom and form bond called Hydrogen bend.



in Radar, Samar, Lidar, mobile

phone and Thermistors?

Wave used in Radar.

Radar uses radio weres

Wave used in Samar

Wave used in Samar

Sonic waves.

waves used in Lidas Lidas uses infrased waves Waves used in Mobile phone waves used in mobile phone are radio waves. waves used in Thermister waves used in thermuster are heat weres. (d) What are advantages and disadvantages of AI. Advantages of AI (1) Medical applications It has made Contributions in the field of medicine from diagnosis to treatment to doug discovery and clinical totals. At powered tools helps doctors & researchers analyze paleont data & identify potenties right, diagnose & marco // Beatment plan n Risky Sutletiens creating robot, we can perform tasus by reeping human line Jasus like defusing of ofeen or any Repit be dong

in our lives, which are lime Consuming and boxing too like cheeking or proof reading documents mailing chance you so any other notes. 80 AI dan be approached to do these monies 3 boxing jobs for Us. Reduction in human error (4) It can significantly seeduce essors 3 increase accuracy and precision m our works. Disadvantages of (1) High costs It requires plenty of time & resources & money to use (2) Lack of Creativity Although, AI provides information & asticles but it writes on its own, what it is already Fed with. There's lack of Creativity in information and nothing new The vipenefits? of 3x disadvantage of is replacing AI is that it humans, and sobots are made to work in many avenag of life, live medie, Componies Che. So human are at orsu of

losing employment 1 Make human larry

H makes human larry As we ase dependent upon AI to perform for us ceux menial tasks, provide us information at hands willout us seersching and using our brains to connect & find the selevant details ourselves. so humans are becoming lary

() uestion: 3

(a) Global warming is a wild beast and we are all poking at it which Sticks, justify.

Global warming

Warming.

It is an internationed problem. instigated by humans - when there's a phenomena where GHGs trap heat from 8un and causes increased global lemperatures this process is called globed wasming.

(1) Rapid Industrialization Rapid melystrialization is one of the cause of grobes warning instiguled by humans, with rapid industrichization is released in the which cause grober almosphere

(2) Population Emplosion With increase in population; more people are added to the feeding Cycle. To most the demands of Such a huge people, more industries ace run: a cause of global waxming. (3) Deforestation
As population increases more forests are autdown to make buildings, living avegs and factories etc. As forests get as con smus and takes in Cor of eitmosphere and cassy cent photosynthesis: If there are no forests, coa will remain in the atmosphere and Cause global wasning (4) Generation of solid waste As these is no proper disposal mechanism of solid waste like dumb, which pællutes air Cer releases Coz and Contribule to global warming (5) Rapid Urbanization As with growing population demands grow, people migrals to Cities has discer line with global warming (6) Combustion of fossil fuels Combustion of Fossil fuels by humans like Coal, ail etc belease Coz which cause 316 bad warming

What is Oxigin of Universe. how age of Universe can be calculated. Oxigion of Universe Astronomers believe that some 38 bn years ago Universe emerged from a big bang. which is called big bang theory, a seading emplemention for oxight of universe.
There was a Singularity, Small Chan pris hate, From Which universe empanded. From Universe in fractions of Seconds, Space form. Then inverse cobled and exercy changed into matter and antimatter. which destrayed each alter and Stable particle called proten and neutron began to form in new 3 minutes temperature dropped below I bn degree Celsius, giving wery for proton & neutron to come together forming H3 He nueles Aflex 300000 yrs citomie nuelles captured electron 3 formed atoms. universe with clouds

of H & He atoms which later on formed celestial bodies and then universe 18 Still erupanding 5 Pre sent Study its theories empansion Age of universe 2) by By looking at oldest star measuring rate of empansion of universe Write a short note Semi conductor? Semiconductos Definition: A material which has sprops + electrical proporties in between Conductor and insulator is Called gomi conductor. Ypes/ (2) Entrinsic Semi Concluetor (1) Intrinsic / semi genductor A semifonduetre in its pure form is called internsic Semi Conductor. (2) Entrinsic Semi Conductor A When an impusity is odded to green conductor it is called emismeri Semi-

It has 2 types of N-type 12 N-type when impusity is gaded to Servi conductor from 5th group of periodic table is called N- type (2) P- type when impusity is added from 300 group of periodic lable to Semi Conductor it is called P- type. d) What is an edipse? Distinguish between Solax and lunar eclipse. Eclipse Definition: when one heavenly body Such as moon moves into Shadow of another heavenly takes place

ee	Difference b/w Solar & lunar eclipses
	Solar eclipse
1	when moon comes between
1	a c parth. Solar eclipse occurs
2.	months.
3.	II occurs dusing day
4	11 occurs dusing day. 11 has 3 types 7 partial solar colipse
	Azmuler solar eclipsi
	14 Dasts for about 5-7 minutes.
S.	is hasmfull to see through
6.	naked eye.
	It occurs when there's new
1 -	moon
	Lunas eclipse
1	when earth comes between
1	moon and Sun.
0	Il occurs livo times in year.
3.	It occess clusing shight.
4.	It has two types
4.	· Total lungs éclipse
	. Partial Janar eclipse
5	It lasts for about an hour.
6.	It is hagmless to see through
5	naked eyo. It occurs when enerc's
	Full moon-