Very good Increase length of theory portion Add more headings Diagrams are fine
Question No. 4 Diagrams are fine Good for math work
Part a:
1- Earth Quake:
Earthquake is defined as:
66 chaking or vibration
of earth which may cause
harm to living organisms as well as to environment."
Earthquake is als agrined as:
seleaving of energy promisside
og gliste due to shaking and
2- Cause of Southquike:
Plate Tectoric Theory explains the cause of
earthquake. Earth is composed of different.
major and give plates whose movements. Could trigger The earthquake, Main drive force.
responsible for movement of these plates is
gravity. Those are offerent types of plate.
Landaville
Place Boundaries
Convergent Divergent Transform
Plate Plate Plate Plate Plate 12
5
Manurement of Faithmake &
3- Masurement of Earthquake: Earthquake is measured by cusing Rikler Cale. On 3rd January 2024, an
scale. On 3rd January 2024, an

Carthquake of around 7.8 mag nitude was felt in Japan which has caused more than 150 deaths. 4- What is Isunami? Unlike earthquake, Tourani is a series of occasivates with extrendy long wavelends and high energy, and are tringered underwater earthquakes, volaric emphon or landstides. While earthquake occurs beneath the earth surpage, tourani is associated with displacement of water in For example in February 2013, a local tourani was recorded in Medikerranean sea following the Syria-Turkey easthquake with magnifude 1. Depining Coriolis Force: Corrolis Force is define as: so the force which gloves the object contex clockwise Northern hemisphere and Clockwise in Couthern Henisphere." As a result of corrolis force objects more in a rotating system, by such as Carth.

DAT	E://
	Northern Object deplect to right
	Southern) object day leed to left
	Coridis Force
2-	Hurricanes are formed over the
	ocean apter beginning as tropical wave,
	the moisture-with propers, possibly enhancing
	shower of thunders form activity.
3-	Steps for Generation of Humicanes
	therriche is created in the following given
	19topis
	i- A Ple-existing Weather Disturbance.
	A hurricane aples starts out as a tropical ware due to disturbance in weather conditions. This gots severa with the passage of time.
	This gods severe with the passage of time.
	ii- Warm Water Conditions:
	Water at least 26°C over a depth of
	Water at least 26°C over a depth of Someter powers the storm. These water
	waves now turned into a strong storm.
	111 - Thunders topm Activity: The thursdorsform turn ocean quel as
	The thurderstorm turn ocean fuel as

	heat fuel for hurricane. This heat becomes a fuel for instigations the process.
	heat fuel for hurricane.
	fuel for instigations the process.
	iv- Low Wind Shear:
	A large etggerence in wind speed and
	direction around or new the
	weaker it. When all these pactors gre
	available, a humicane is developed.
	come
	Touthered to
	low
	Brestore area
	gye area
	Part c
	THE PERSON AND PARTIES AND ADDRESS OF THE PERSON OF THE PE
	Disserences between Solar and
	Différences between Solar and Lunar Eclipse:
1-	Difference in Phenomena:
	Eclipse is a process when one astronomical
	object goes into the glade of other. In
	solar eclipse, mon comes between solating
	earth and sur thereby blocking the
193	Solar radiations reaching the earth. This

DATE: __/__/__ lunar eclipse is the process when earth blocks the solar radiations reaching the moon as a result moon comes under the whadow of Solar Eclipse Luras dar eclose lasts Dissert in Time of Occurring: Solar eclipse is visible during the day time. On the other hand, bener Iv. Difference in Peniod of Reocaurance:

Solar eclipse recours after a

long period of time i.e after 18 months.

Whereas, lunar eclipse occurs hurce a year On this basis, solar and lunar eclipse are different from each other. v. Potential of Threat in Gelipse:

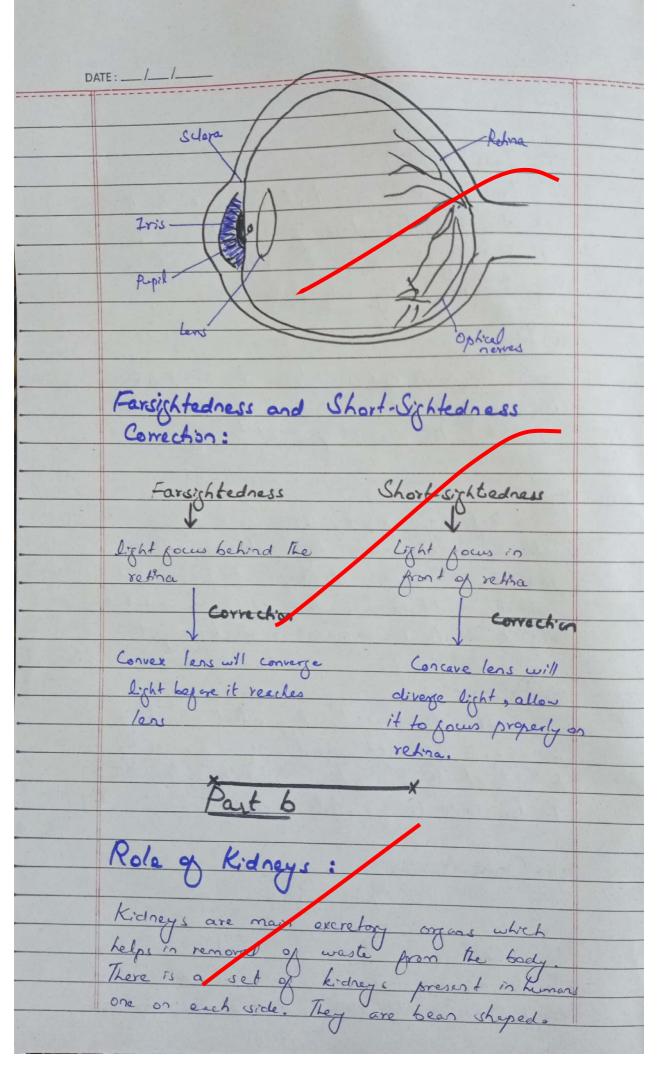
Lewar eclipse can be visualized with

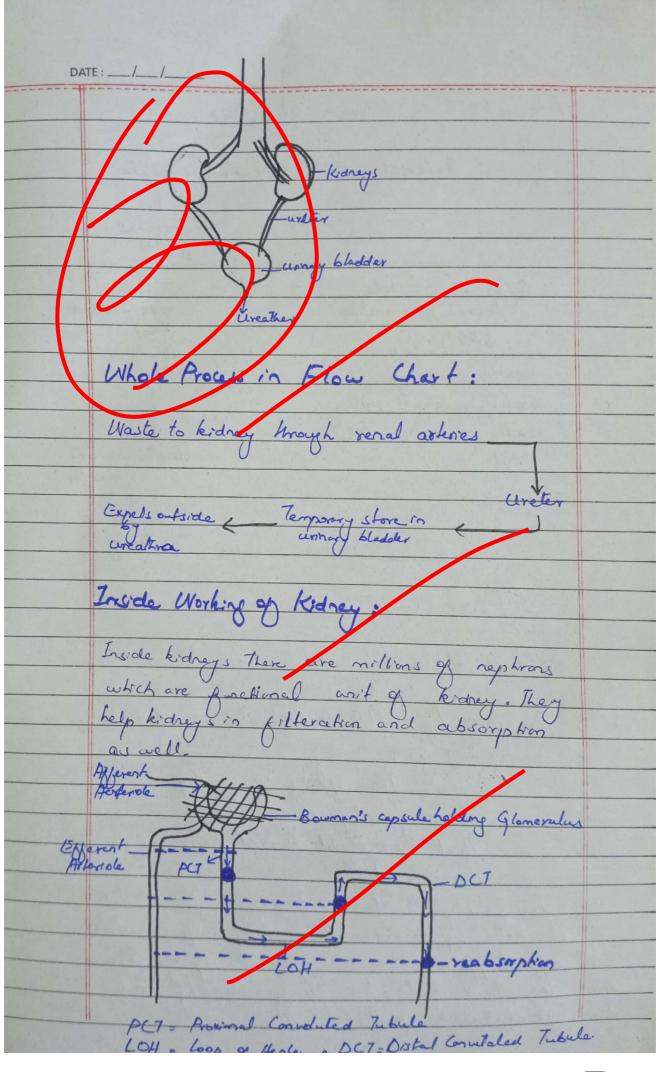
naked eye. On the other hand. Solar eye. So, potential of threat also make them apperent from each others vi. Difference in Place of Visibility of Eclipse Solar eclipse is Anessed in pew place and not in all place. On the other hands the same time. Therefore, all these points creete a différence between two edipses. Semi-Conductors: Semi-conductors are defined as properties between conductors and instators are called seni-conductors. The common type of semi-conductors are Silicon and Germanium.

	ATE://_	
	Doping in Semi-Conductor:	
	Doping is used to increase electrical conduct	
	-ivity and to reduce resistance. It is done	
	in extrinste semi-conductors when an impurity	
	from group III or V of periodic table	
	is added to pre semi-conductors	
-	Semi-Conductor	
	7	
	Infonsia Extrinsia	
	Se The	
	(a)	
	(ge Pal	7
	ge 1	
	Go.	
	Cermaics and its Types:	
	· · · · · · · · · · · · · · · · · · ·	
	Ceramic is defined as:	
	"material which is niether	
	organic normaballic and can	-
	be glas, crystalline or both	
	with hard and restsfort	
	properties.	
430	are shaped under high temperature and	

Coranics Lessporous Question No. 3

re:/	
iornea,	
139	
iii- Ins:	
Iris is a dark me	esseular Assence and is tocated
Sehind cornea. The col	lour of his determine the
colour of eye. The i	iris also helps regulate or
adjust exposure by	adjusting ires.
iv-Pupil:	
A small open	ing in the iris is pupil.
The size of pupil is	conholled by irrigand
If controls the amon	nt of light mongins
v-Lens:	· A A A A A A A A A A A A A A A A A A A
	il lere is a transparent
otructure called les	s. By action of citizany
	it shape to four light
on retina. It become	nes hin to yours on distant
object and Thick to	Jocus on rear by objects.
vi-Retina:	
It is light sere	silive layer that consist of
many nerve cells. It	converts mage formed by
ens into electrical imp	pulses which are transmitted
to the brain through	optic nerves.
ii - Optic Nerves:	
00	se nerves
Cons	Rode
sensitive to brigh light	·- Sensitive to dim light







Flowcharf of Working of Nephron Afterent Arteriole blood, Bownen capsule forenches salts from PCT, DCT, waste Urmany Outside the body Part c Black Hole: According to NASA website, Hack hole The gravity is intersed because The matter Las been squeezed into a ting space. This can happen when a star is dying. So, the black hole has strong alensity and gravitational pull.

DATE://	
Formation of Black Hole:	and the day like the own law law law
O Stages - 100	
Black hole is Roomed due to collapse of staxs.	
Black hole is formed due to collapse of staxs. Following are its process of formations	
	1 17 11 -
i-Stellar Evolution:	
A massive star indergoes jusion corrierly	
Hinto He, which provides energy to counteract	
with gravitational forces trying to collapse	
11. Depletion of Nuclear Fuel	
over the million of year, when a stor	
runs out of Hydrogen progresses to	
hoovier clements through successive stages	
over the million of year, when a story runs out of Hydrogen is progresses to heavier elements through successive stages and reaches From At this stage, it cannot	
release every through fusion.	
iii-Iron core Collapse:	
As a result of defining of	
energy the iron core colleges and of	
all happen under gravity within a fraction	
of second.	
tu Ciaco Nova Bulanca	
iv. Siper Nova Explosion:	
Core sapardly collepse and cause	
Star one explicat outward on a massive	
explosion called supernova explosion	
The remaining core with gurther collapse	
The remaining core with gustler collapse	

DATE: _/_/_	
into a new winde dense structure called	
singularity, Area around the compularity	
is called event horizon.	
vi- Black Hole Structure	
The black hole dow consist of a	1
the stack to dimensional by	
congularity at the center of surrounded by	
event hormon. Outside event hormsoms	
region where space and time are arrapped	
due to correg gravitational pull.	
Andrew Tore (
tron)	
Company	
Cxplosion Cxplosion	
Black Hole Creation of Singer	4.1
Black Hole Creation of Singe	Lonly
Franking Alach III	
Formation of Black Hole	
S L C	
Part 4	
7 /	
1- Lisotopes:	
Isotopes re defined as:	
" aforts of same element	
having some atomic number	
but dyperent atomic masses	
00	

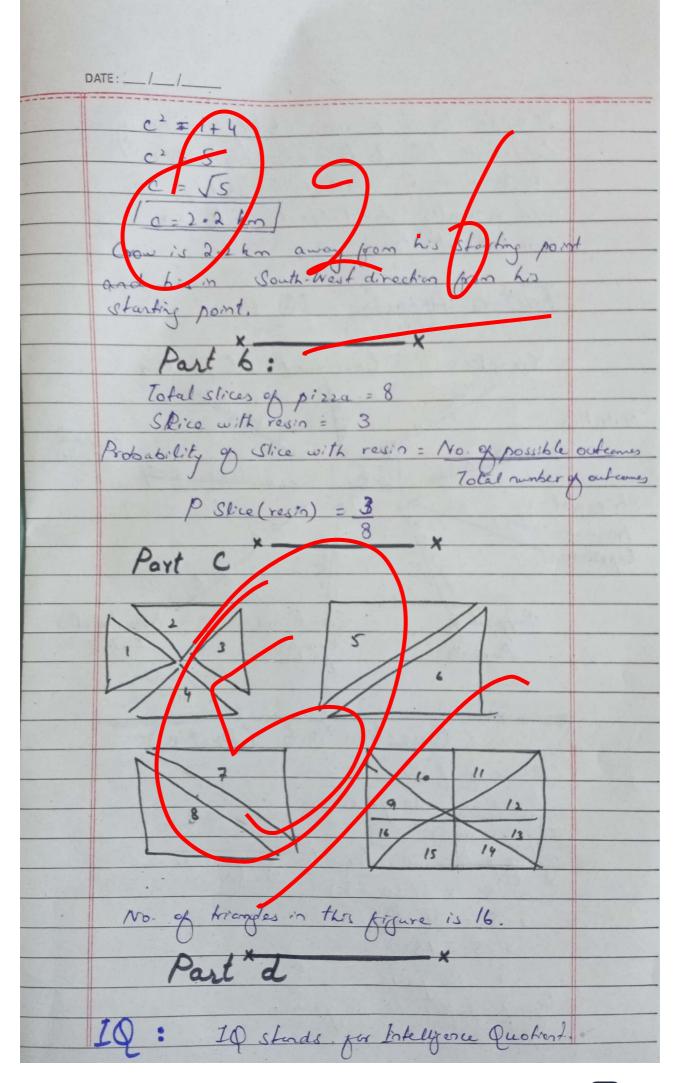
DATE: ___/__/_ other. For Example:

The two isotopes of Uranium are

U237

U237 Loobars: Isobers are defined as s 66 atoms with some mass number but apperent atomic number are called isobars? For Example: Carbon-14 and Nitrogen-14 are isobers atomic and mass number are isotones. For Example: Sulpher 36 and Chlurine 37 oure isotones

: Protium, Denterium enterium) Trobium this point By the have to find distance between in correspondence to axis, distance between B and C is I and A and C is 2km Using pythagoras Theorem
(c) = (b) + (a) = $(c)^2 = (1)^2 + (2)^2$



Mutrition Cultral Streggand Traumatic Experiences Soval and Neuro logical Question No. 6 (Part a) He of pather was three the age of son. x-5 = 3(30-5) Age of father is 80 years.

