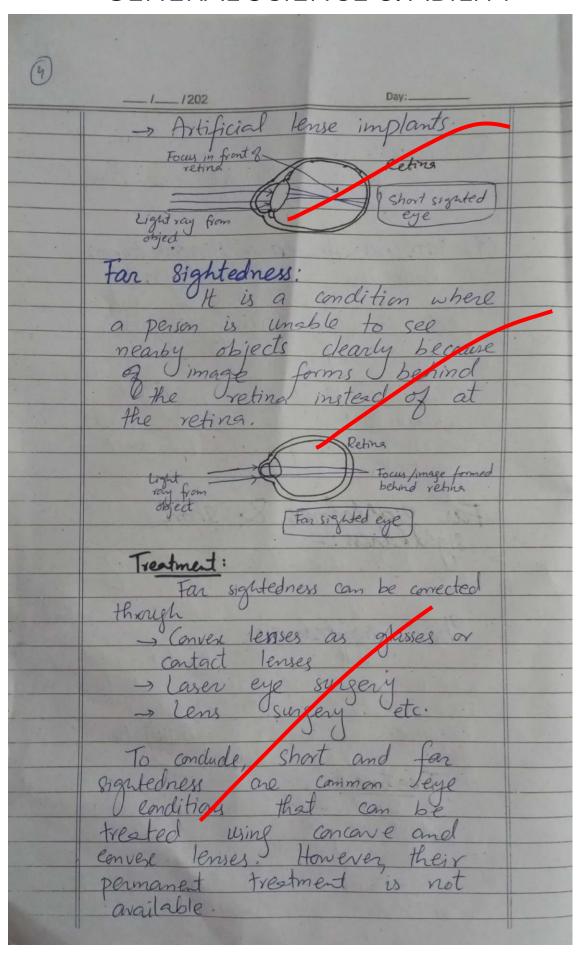
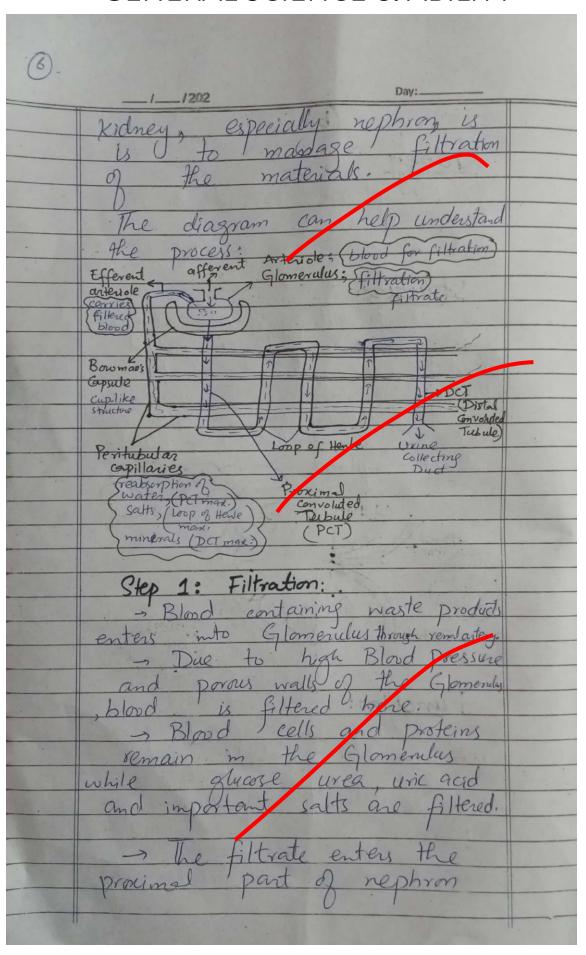


0	
//202	
isis opens the pupil.	
	_
(3) Pupil:	
where light enters into eye.	_
4) Lens:	-
Lens is responsible for	
reception of light and focusing	_
De l'accession de la constant de la	
6) Retina:	
It is an ext innermost the	_
human eye.	
. It I than small extensions	
called rods and constitution are	
the photoreceptors.	
Here, light wave is	
converted into action potential	
j.e. image.	
(6) Optic Newe:	
It transmits image towards	
the brain where brain's	
role is the recognition of image.	
a) Charid.	
Choroid is a little thicker	-
I moddish loser, which	-
helps in nourishment of eye.	_
	1

	3
600	
3 Sclera:	
the back side of the eye.	
Both are Fluid filled parts.	
Viterous Human hier on back	
side while Aqueous Humar lies on Front side	
Dayrens Human supplies	
nations where vessels comme	
particles.	
Far Sightedness & Short	
sight kores: - Both are the diserders of	
human eye.	
Short sightedness: It is the condition	
where a person is unable to	
because of hald's inability to	
Treatment: Short sightedness can be	
corrected by lenses in as	
alasses or contact lenses	
s laser eye surgery	7



	(5
	6
//202 Day:	_
(b)	
Kidney	
Kidneys are present in h	uman
body for the excretion of metabolic waste products.	
metabolic waste products.	
Streture	
Fach vidney is bean sha	Ded
with an outer O layer colled	
notation cortex and an inner laye	2
lealled medula.	1
let & Kidney & composed	8
Abort 2 Omillion tiny tube	
alled nephron. Carries blood for fitteration	ness Index
ena	3
Jackey (2)	
Renal Vehn	
Carries (Street	
away from A (11) nephrons	
Ellyation	>
Excretion Excretion	
Function:	
Vidnous and responsible 108	
regulation P of blood volume	4
had present, auc sust	
balance and synthesis of	
Vitamin.	
	1
But the main function of	1



	0
//202 Day:	,
Step 2: Reabsorption:	
All the weful constituents of the filterate like glucose, salts and water is vabsorbed in proximal; roop of Henle and distal part of the hephron by peritubular capillaries Usurroundry these parts.	
Step 3: Secretion: All waste products from the distal part enter its the collecting duct which interns opens into pelvis. Fix. From pelvis, these enter into usinary bladder and later excreted outside through Usethra.	
role of excretion in Jas a major contributor in the excretory system. Part (C)	
Black Holes: A black Hole is an object Destreme density and very Strong gravitation D pull, even light cannot escape Low it.	

(8)	
	It is called black because of
	its maximum capturing 0
	Formation of Black Holes:
	Dlack blo as Grand because
7	Black holes are formed because
	1) Internal Pressure:
	Fusion of Hydrogen faming Helium creates pressure through following process.
	(displacement) Force Fuylon - Hydrogen+
	J generate Hydrogen=
	Prosure Energy Helium
	Force per Jability of a body Ster
	Area. Wok.
	And a remed
	(a) Gravity of Stan:
	internal prefune
	moves can matter outwird
	Can lenter because
	weight is a force with
	which earth altracts the body towards its
	Center.

	0
Now, if internal pressure and approxity maintain a balance, the star is maintained. If not, the star collapses.	
internal pressure	
Since, Helium is stable but not the post stable, it	
atoms e.g. Carbon, Oxygen,	
As a result, the fusion reaction slows down, which decreases the internal	
Lesser internal prossure means more gravity which in	
density is acquired.	
is formed.	
Isotopes:	
botopes are the atoms of the same material having came atomic number	
having dime atomic number	

0	
//202 Day:	
but different mass number.	
some isotopes are ladic active, meaning they radiate energy	
as they decay to a more	
Hobe of four.	
Their chemical properties are	
clime but physical properties	
may differ	
O D Had also	
For extra le Harosen atoms is	
Higging packed in a metal with other	
atons	
It is possible that they keep	
sharing electrons with each	
other making or breaking their shells.	
Suestion #64	
Forth quakee	- 1
Earth quake in a temporary	
trembling and shake of ground	90
Stored inside the Farth.	
Causes of Farth quake: Against to Plate Tectonics	
Agolding to Plate Tectonics	

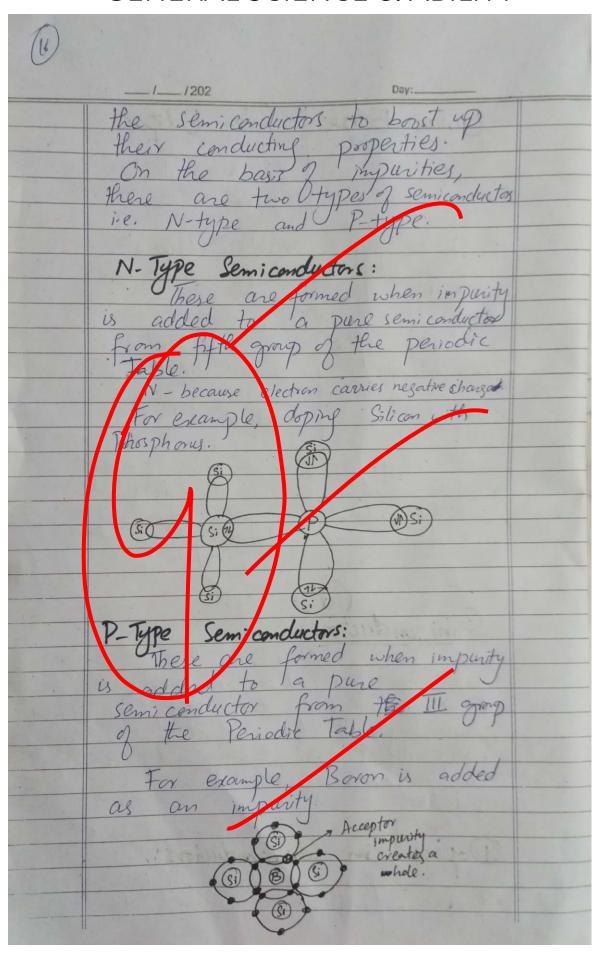
	100
Theory, there are seven major plates in 1 internal structure B Earth. D Atlantic Nate - BAfrican Plate	
@ Pacific Plate. @ Ind Australian @ North American Plate Plate @ South American Plate @ Eurasian Plate	
earthquake. Why the tectonic plates move? Many driving Force responsible	
in Oceanic Lithosphere meets another gate, then the densed place dragg the sit of the	
Plates. The powers is called subduction. Furthermore, currents of magna also contribute in the movement of these tectorics	
plates. Tram Tramami:	
Forth quake is different from Tsundmi belowe Farth quake is the marement	

(P)	
	of tectonic plates under the earth.
	under the sea.
	property of tectonic plates'
	in both cases is different.
	Cariolis Force
	to move the objects to the
	and to the left in Southern Hemisphere
	spin motion of the Earth. origin of localis Force: 2 steps muched.
-	If I when a just morne object is in the moving frame of
	to the centrifulal force.
	is anticlecture W
	centrifyed, 5 southern Hemisphere Constis force (due to spin metion of Earth)

					(13)
_	1		Day		
9	spin is com pradient, phenomen	100	of w	the pressur	MATERIAL PROPERTY AND ADDRESS OF THE PARTY AND
+	turi com	es:	20123	- 19-3 19-4	
'n	These the	one West F	the of	ocean.	
	North America The		tic viricont)	Pacific (Typhen) Indian Ocean Fronces	
	Formation			Tropicel cyclone)	
	because /	of tu		tors	
	im	sveribus /			
*	Pushing air			ing Air ecause of heat)	
	on Pressure		tion = gas t		
	water body	e.g. se	a, oclar	ete	

(4)			
		ay:	
		2 results	
	in Hurri Panes		
	(c)		
	Junar Difference		
	Lunar JT	7.	
	Solar Eclipse Garla	colysse	
	Fasth :	mosp	
		Tearly is	
		etween the	
	and the the sun		
	an eclipse is called Earth many	in called	
	. solar l'eclipse. eclipse	eclipse.	
	Lunar	agn.	
	- (Sun) (Sun)	non tack	
	- Lylan Eclipse is - Solan E	lipse is	
	classified into classified	into	
	· Total lunar Felipse · Total	Solar Eclipse	
		Solar Felipse	
	nnus	1 Solar Elipsa	
	- Here, Earthy - Here,	Marco	
		radan an	
		ALCOHOLD BOOK OF THE PARTY OF T	
	the Moro		
	- It is visible -> It is	mly visible	
		Ungrew	
	henisphere over is	21.cla	
-	The state of the s	MON	

			(B)
//202		Day:	- II
Lunar	Eclipse So	lar Eclipse	,
	The same of the same of	MARKET THE REAL PROPERTY.	
		Moon Shadow	
	Yus	ses.	
-> Lunar e	clipses -> Solo	an eclipses	
happen a	t bas	pen at new	
full mg	mot		
-> Mom's	urshe > Mo	on's surface	
can be see	n egnn		
during a	Junea dur	ing a solar	
eclipse.			
-s Can alway	sbe >	in only be safely wed with	/ ·
safely ven	Ne Ne	a ked with	
with nak	ose tot	aked eye during ality.	
		U.	
	(8)	A STATE OF	1
Semicon	luctors:	S14192 - 191119	
Sem	i conductors o	are the	
materials	which allow	em only	
to pass	that co	mduct J	
- Divite		an conductors	
	ma greeter	Inan	
insulators.	es include,	Silical germanium	te
Doping	in semico	aductors:	
J	E. C.	added into	
which im	purifies are	acco co	
AND THE RESIDENCE OF THE PARTY	The Real Property lies and the last of the	THE RESERVE OF THE PERSON OF T	A STATE OF THE STA



	(1
Ceramics	
A ceramic is an inaginic,	
non metallice 'solid mode of	
motel manustal	0
metaloid atom more	21
held in ighic and covalent	
Dinus	
Types of Ceramics.	
Types of Ceramics: There are two types of Cerami	
As & Ceremin	C3-
@ Crystalline:	
metalline cerain i materialis	
are not amenable to a great	
ronge of processing.	
Forming techniques include.	
Shapings by hand, slip casting	
take casting, dry pressing etc	
(b) Non- Crystalline:	
Non- crystalline ceramits	(3)
being glass, tend to be formed	
The glass is shoped when	
either fally molten, by casting	7
or Juhen in State of	
+offee - like v Bcoffy, by method	de
Wouch as yould Visto a	
mould.	
when later heat treatment	5
cause the glass turn partly	
Crystaline it is known des	

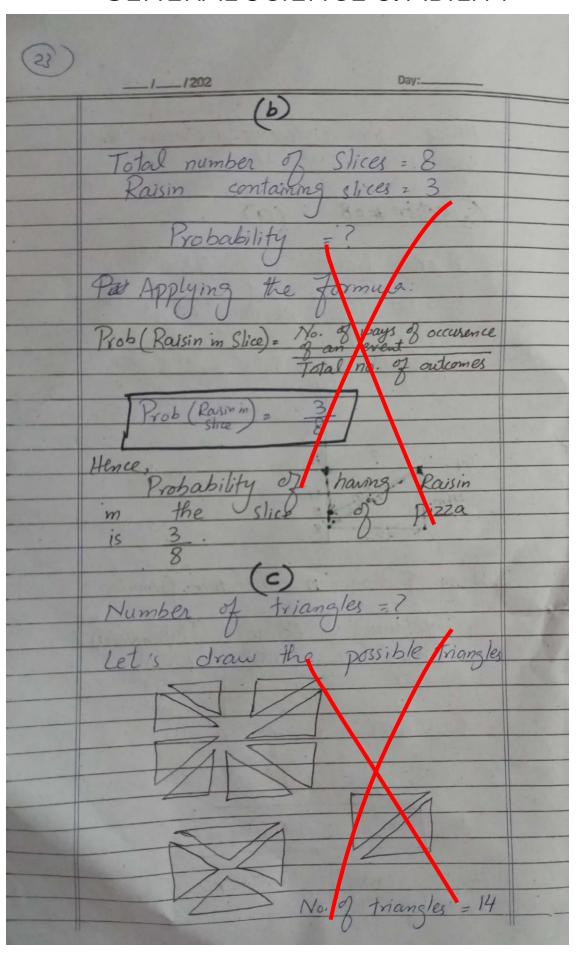
		Day:		
C				
SE	CTION -			-
Question No. #	06		THE REAL PROPERTY.	1
	(a)			
Current Current	Hge of	Son	= ×	-
- tathes'	MOD LU	leass ago	= y x-5	-
Son's age 5 ye	was !	thrice	~ 5	
5 ye	ears a	90 =	4.5	
As we know				
Father goods age	mas H	nice the	age of son:	
x-5	340	1-5)	00	
34 x	= 15-	-5		
34-X	= 10 -	→ (f)		
O	200			
Since, Current so	no of ex	n = y =	2.17	
	U			
Put y=30	in equa	tion (1)	
3(30) =	-x = 10			
90 -	x = 10	10		
X	290	-10	. 3 11	
X	= 80	0		7
Hence,				

9	Day:
	Paret (b)
	Part (b)
	Observations = 10, 30, Y, 50
	Mean = 50.
	No. of observations: 4
	0 Y = 3
	As we know that
	Mean = Jam of Observations
	No. of Observations
46	Putting the values in formula
	50 = 10+30+ +50
	- F
	50×4 = 10+30+ Y+50
	200 2 10 4361 1
	200 2 90/4
	Y = 200-90.
	Y = 110
	So, The missing observation is 110.
	The mussing observation is no
	Check
	Moon Sum of observations
	No. of observations
	50 2 10+30+110+50
	4.
	50 = 200

	8
50 = 30	
Both the Meany are equal.	
Hence, proved that the missing	
number is Y=110.	
0 +	
Part (c)	
(i) 2, \$6,18, 54, 172	
The numbers are multi-a	
me namoers are ma	
Sexies multiplied by 3 and	
Continuing with 6 multiplied	
by 3 18 multiplied by 3	- 20
and the next number	
and my	
comes de la comes	
(ii) 3125, 256, 21, 4,	
The numbers are multiples	
their respective powers	
Di a designative order i.e.	
4 is the square of 2,	
230 3	
3125 is 5 times of 5. Hence	2 19
27.	
2×2 = 4	
3×3×3 = 27 4×4×4×4 = 256	
5 x5x5x5x5 = 3125	
3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7	

(50)		
	Part (d)	
	let two number be - x "	
	Product of the numbers - 1xy=320	
	Their ratio = x:y = 1:5 Simplifying it	
3-1-6	79 70 10	
	42.5x	
	So,	
	Therefore, we : can say	
	(JUEY) 225	
	$5x^{2} = 320$	10.5
-	x2, 320	
	2 (1)	
	2 64	
	Taking The Square root	
	JX = 164	
	X 28 - 2	
	Putting the value of /2,	
	y = 5x	
	y 25(8)	-
	Now, we can get the difference between their squares.	
10000	between their squares.	
1	Difference = (40) - (8)	
	= 1536	

				2
	1202		ay:	
Hence	es is	PA :		
	tion # 08			
Ac	You travels then	west = 3	km	
		North = 4 Bouth-East = 6 Initial point	2km	
W D 4km	? A 5km 8		- E	
Using (Hypo)	Dythagorian tenus) = (1	Theoriem, (ase) + (Ten (B) 2 + (A) (A) 4 (A)	(orphula: pendicular) D) D)	
THE STATE OF THE S	$(D)^{2} = \sqrt{21}$	5 (AL)		
Hence	AD = 4.5	3 km fr	on the	



	(29)
Hence, there are 14 triangles in the given figure.	
(d)	
Intelligence Quotient (IQ):	
score derived from one of different several different	
tests designed toll bussess intelligence. Tactors offecting the 103-	
different factors. Descriptions	
This factors affects the KO to some degree for may be the other	
Rasental Social Status Parental Social Status may also affect the 19 of an individual.	
These are also the factors associated with Intelligence	

(35)		
	202 Day:	
quotient.		
> Hozita	hilihe.	
The 11	ability: an individual.	
genes	of an individual.	-
These	factors, to of higher	
	esser extent, affect the	
-	net of a person	
Applicat	tions of 10 scores:	
	is used in many fields	
the as		
achie	vement or special needs	
-> DX:	edictor of job performance	
-> pre		-
el		
1 40	In short, 18 is an	1
affective	ligened level of an	
index a	ligence level of an	
affects	ine lit chould lake	
bell	I taken in account finding the scores.	
while	finding the scores.	-
	A CONTRACTOR OF THE PARTY OF TH	
1	TO ME TO SERVICE STATE OF THE PARTY OF THE P	