Pent I	0
Section 1	
-40 -40	
Earthquakes:	
shaking of land due temporary driwinking as	
in it is known as earthqueber	
Major Earthquakes in Pakistan:	
• 5 October 2005 . 26 October 2015	
How Earthquake is generate: Fasthquake is generated due to the movement	
of tectanic plates There are total 15 tectanic plate	
Upon which Seven importants are: North American plate . South American plate	
· Pacific plate · Atlantic plate · Ande Australian plate	
Phenomenon beyond Forthquake gene	American S
Enothquake is mostly generated due to law extracted then earth man	
part is unbalance. During balance the tecturing	

	are moving and fracture line is marked on	
	the surface of earth. Other source of production	
	is when heavy dense plate stide with small	
	and less densit plate; the small plate/densit	
	plate move upword and energy is released from	
	the focus This process is called subducion These. are sesmic waves which produced during these	
the same of the sa	process. Sesmic waves are love waves and Paylonge	
	waves. Other way to explain the carthquack is	
	through elastic potential theory.	
	Refore earthquete 111111	
	At the start of	
	Earth quake + + + + + + + + + + + + + + + + + + +	
	After the earthquake 111 +1+1	
	Distinguish with Isunami=	1,
	In tenamina large ocean wave is produced	
	due to earthquak, or volucionic exuption in the	
	Town and is exacted alle the parthouse and	
	Tsunsmi is created after the earthquake. And earthquake is generated due to the movement of	
	tectanic plates Both are connected with the	
	movement of tectaric plate. More ever, due to	

atomic bomb explosion in the sea high and ctrong waves can be gonerated in the seean. Both destroyed all things and causes serious economic damages to the earth. Coriolis Force= When the object is moving right in northern hemispher and moving left in couthern hemispher then the force that is produced due to this movement is called coriolis force. Hurricanes= Hurricanes are the form of cyclone. Cyclone is produced when they is pressure difference is created and combined with corricles force, then strong air circle is produced which is known as cyclone Greneration of Hurricane (Cyclone)= Cyclone is generated when pressure gradient is coupled with cariolis force At the surface of

	unter bodies, the water drops are moving	
	upword by decreasing temperature. After reaching the	_
	point where pressure is became low condensation	
•	process is start. At that point pressure on droplet	
	from the atmosphere is high and itself pressure of	
	gradient is produced/generate. It is further coupled	
	with the corilois force which move the cycle.	
	form.	
	Atmosphese () Something the the	
	Pressure 15 Pressure (vapous ->to uquel)	
	high uniter	
		1001
	When this pressure difference is coupled with	
•	corilois effect the large whole of cloud is generated	
	In the sky above the ocean.	
	Parts of Cyclone (Hurricane)=	
· ·	Eye . It is the center region of cyclone	
	Eye . It is the center region of cyclone. In this region the pressure is low.	
2	Eye wall	
	11 sthe sides of cyclone	
	Proxime is high.	

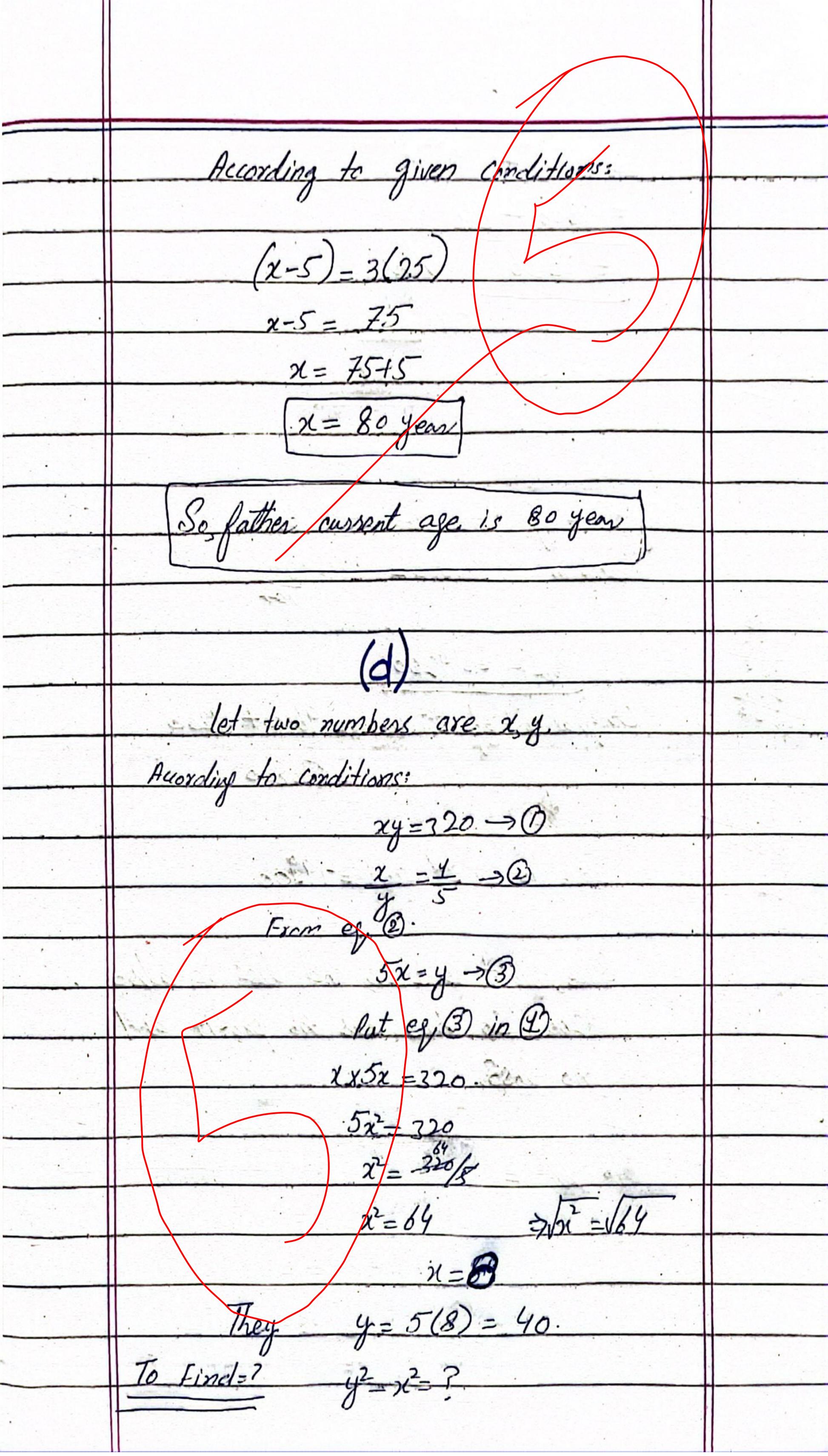
	2
Names of Cyclones	
	Pacific
North Ratine Hurslane	1 Typhon _
America Hurricane	
	ean
	elone.
(C)	2013
Solar Eclipses = (sun) (main)	
When mun is in between the sun and	
earth then such eclipses is called soln eclips	
There are three types of solar eclipses:	
(a) Total solar eclipse = (son)	Fair _
When moon is exactly alineal on the same	ine.
which having center of sun and earth, then such	
eclipse is known as total splan eclipse.	
(b) Parital Solar Eclipse = (sun)	6.4
When moon is above or below the line joining	f
When moon is above or below the line joining the center of sun and earth, then such estign	

is called the postal solar oclipse.	
(c) Annulal Solar Eclipse = (sun)	Man (Earth)
The middle object, moon is smaller in size	e
then sun. So, when moon is in center but st shorp raye fall on the surface of earth a	M
forms belly bests. This eclipse is known of annual solar eclipse.	2
Lunar Eclipse (son) (Ent)	Man)
When earth is in between the sun an	1
moon, then such eclipse is known as	
(a) Total Lunar eclipse (sun)	Earth (Moon)
When earth is exactly alined on the same.	line which
joins the center of sun and moon. Such eclipse is known as total lunar eclipse.	2500
(b) Parital Lunar Eclipse= (500)	(Entra)
When earth is above or below the line jo the center of sun and man then such	///
	. 1

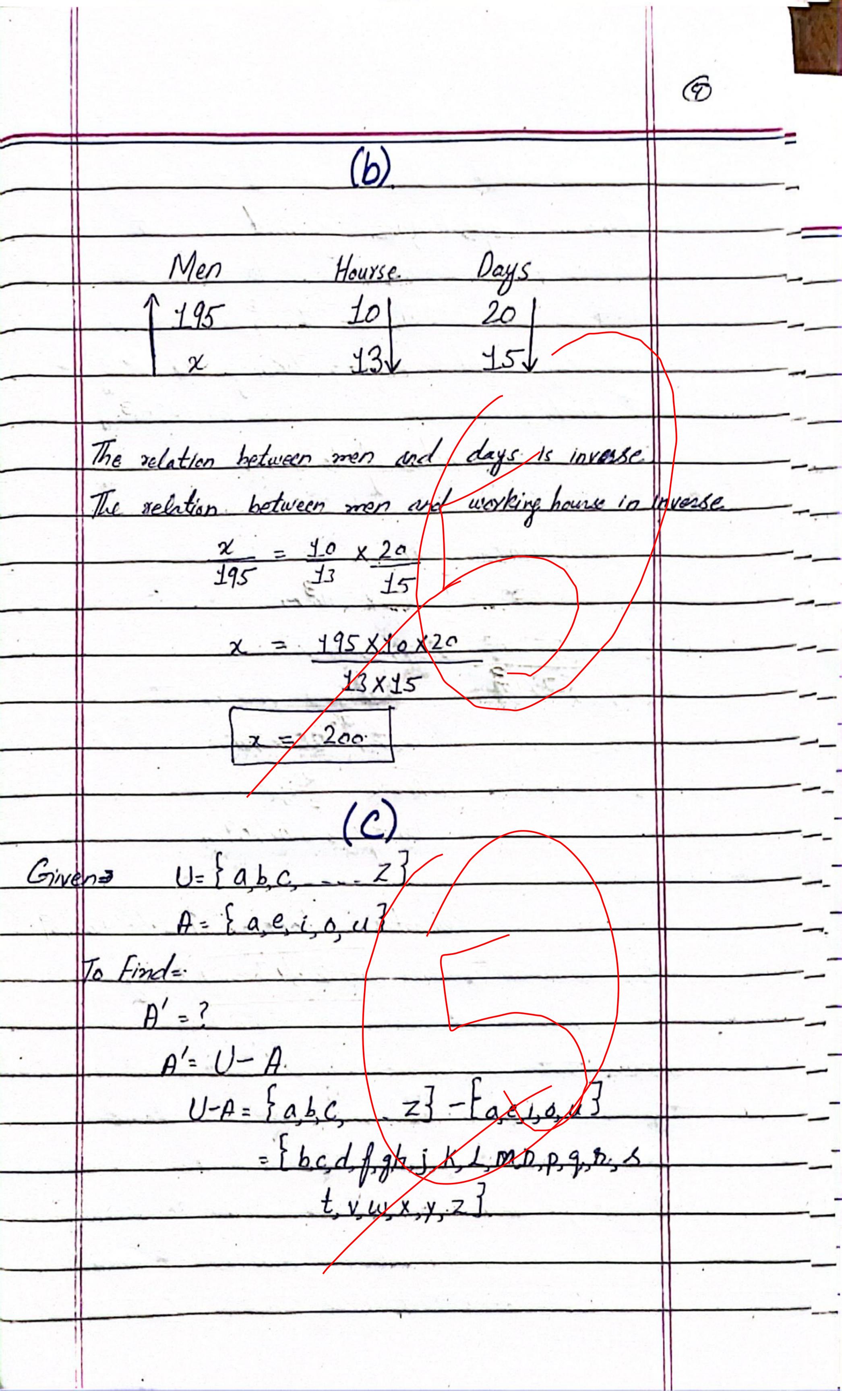
	is called partial lunar eclipse.	
2		•
	Semi-Conductor	
	The ceranic materials having electrical proper	No.
	in between conductor and insulator is known	
	as semi-conductor.	
	Doping=	
	It is process in which forten electrical energy is used for the movement of charge because	
	charges do not move due to strong effects of	
	When impurity is added in pure semi-conductor the this process is called doping. It is of two type	
	N-type semi-conductors:	
	When impurity is added from V of periodic table in the pure semi-conductor then type is	
	known as n-type doping.	

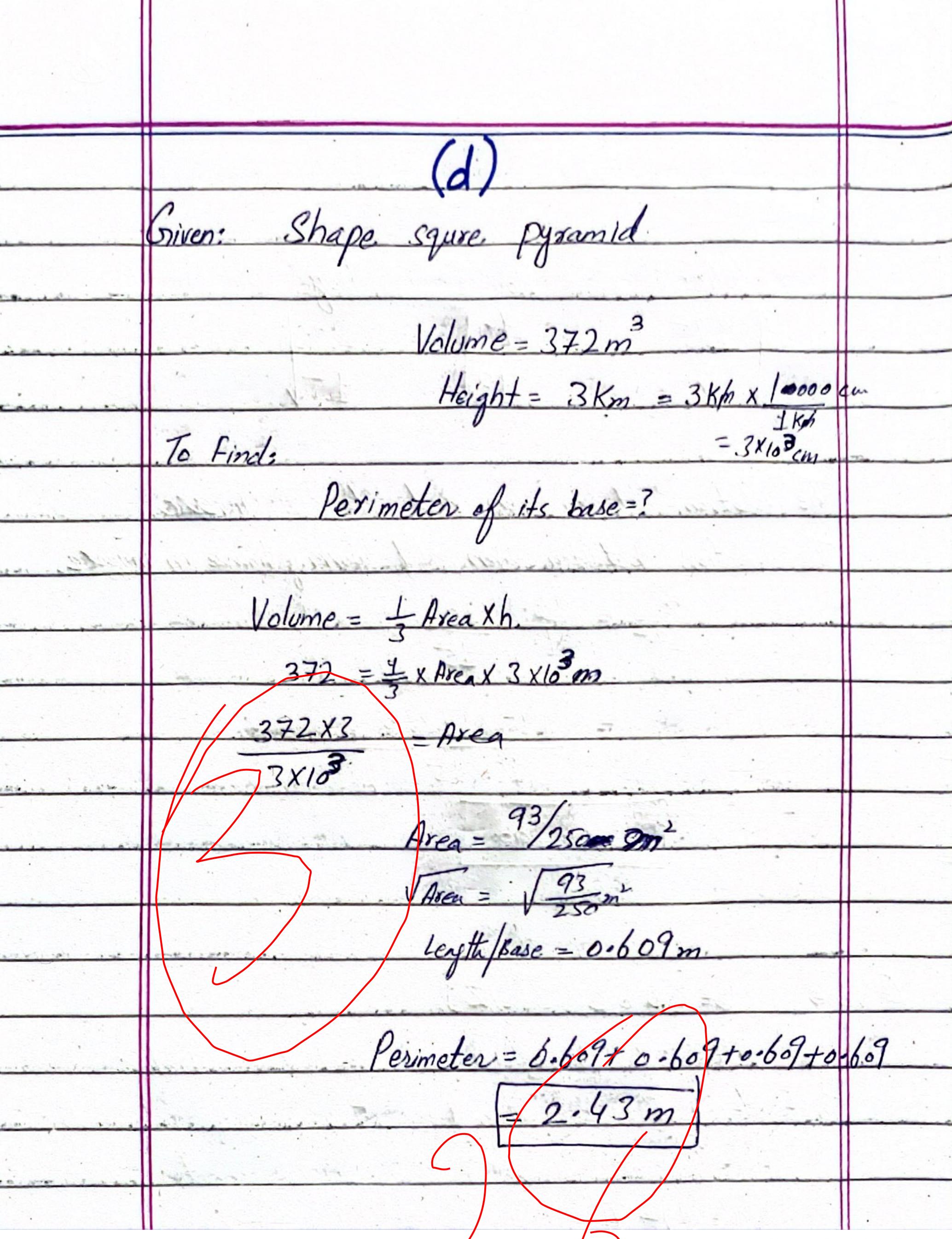
Explanation= Phosporeus is fifth group element and it has five electrons in its valence shell. After shring four electrons with silicon, it has still one election in its valence shell. That's why it has negative change. -type Semi-conductor= When impurity from third group is added in pure semi-conductor; then it is called p-type semi-conductor Dlanation= Born is third group element and it has three elections in its valence shell. When it share its electron with it his positive charge on it

	(c)	
	(i) 261854	
	Sol: 2,6,18,54,162	
54	1/m. 2x3=6	
182	6x3 = 48	
	18X3 = 54	
	54x3 = 162	
• • • • • • • • • • • • • • • • • • • •		
	(ii) 3±25,256, 4,4	
	Sd. 3125, 256, 27, 4, 4	,
•	$\frac{1}{2} = \frac{1}{4}$	
	$3^{2} - 27$ $5^{2} - 3125$	
	4' = 256	
	(a)	
	The state of the s	
	let father age = x. then son age = y And current up of son=30=	4
	Five years ago:	
	Age of father = 1-5	
	Age of son = 30-5	
	= 25	



	$=(40)^{2}-(8)^{2}=$	
	= 1600/-64	
	= 15.36 Ans.	
	$C \rightarrow 7$	
	(a)	
	Selling Cost of one scootie = RS 96000	
	20% in 1st secotie = 96000 x 20	
960	100	
20	Profit = 1819200	
1920X 19200	Original cost of 1st scoole = 96000+ 19200	
	\$76800	
16000	West	
78-800	201- loss in 2nd scrotic=-19200	
96000		
	Since projet is 19200 and loss is also	
	19200. So she has no profit and	
	no lost.	
	6/6 Phat =	





The main conflit is how to utilized this money and which institutions will perform this South Astan and African countries want to build new institutions, but USA, FU and UK support WB for it Currently, world Bank is performing and after next meeting new institution will be build for Work for Mitigating the Fuel Burning = UAF along with other countries agree to reduce the burning of fossil fuel and promote the renewable energy. More than Loot countries afreed and committed under the UNICCC Council ship Work on Capacity building Resources Mobilization and Institutional Rehams Main focus on capacity building by adapting sustainable process Similarly, developed countries ensure that source are mobilization towards the vulnerable countries and using these Underdevelop countries reforms their institutions Pakistan is facing serious tribule due to climate issues Ac per Germo watchdop Pakistan is 8th most Vulnerable country that fixes climate exists.

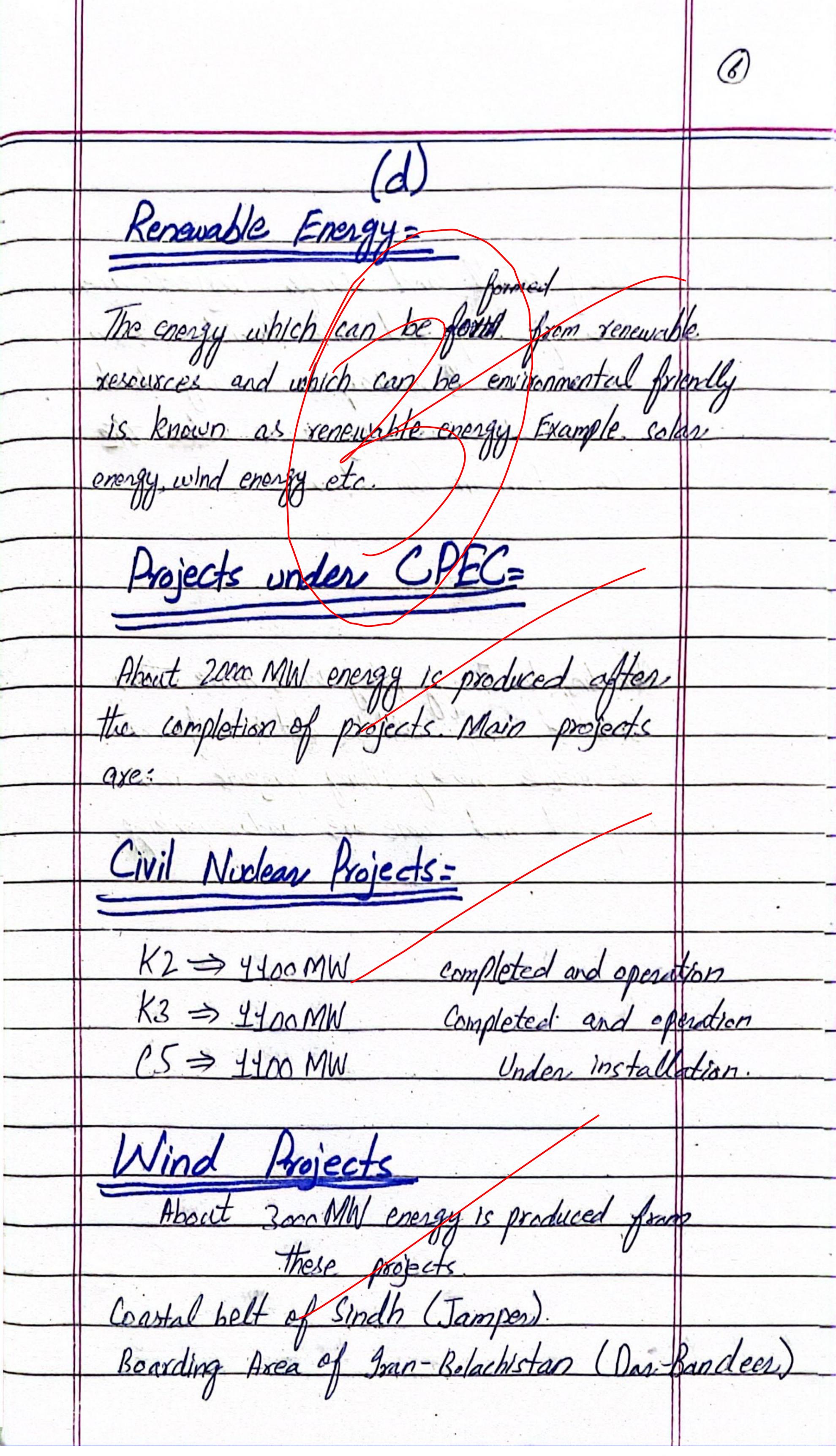
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	Conclusion=	
	The main process is to select the most value	66
	countries and provide more sources to these con	stries.
	Other then, the agreement between countries to mitigate the use of ail is essential.	
	Solid Waste Management=	
	The authority which is specially designed to perforte the work starting from collection of write to the	
	disposal of unites is controlled through strategy which is known at splid waste management.	
		•
	Characteristics of Solid Waste Many	ement=
	There are some characteristics of SWM.	
	Collection Team A strong and experienced	
	are required. This process is expensive but many acres	can be
2.	Collection Point=	Integer of
	he at the center of city. Make sure that	
	The war of the sure sure was	

there is no college hospital within radius of them from collection point. 3. Segmation of waste= At collection point the separation possess is performed. Plastic waste etc can be solved and other waste is either dump ax decompose according to suitable conditions.

Methods pen damping = . It is technique in which waste is damped. It is used in old day but not provided in these days because of an and land pollution. Secontly, open damping is hazardous and daminge the land along with unter process. In this organic waste is compasting and obtained product which is known as compositive is used for the agriculture Ancine de destilizer - Ancineration It is mostly used for household waste and hospital waste. Organic waste is used in it and busp in incenseated.

Minimum temperature regulared is bonto 3000 and Filling= It is also used to decompetto waste. But it has a problem that it contaminate the underground water. In these dry, governments not allowed this technique dae to enimonment Balance Diet It is the diet which contains the right quantity of essential nurtrient. The essential 1 Carpohydrates 2 Fats 3 Proteins.
4 Vetimins 5 Water 6 Minerals axbonydrates - These are essential for the healthy working system heart, kindney and musclus system It fulfill the needs of energy Main sources of earhohydrates are Wheat, milks vegetable facits Proteins = Essential for musles killing, healing process and also fulfill the mergy needs

Main sources of proteins are nilk, eggs, meatick. Fats = They are source of energy and privides
fat soluble vitamins (A, D, F, K). Main sources
of fats are milk, meat, sil, fish etc. Minerals are essential for the bines, hearts. Ridneys, strong healing process, teeth etc. Main minerals are Calcium, potassium, coppor, Iron etc. Sources of minerals are Milks, Liet, vegetables fruits, salt, sen food etc. Vitamins = They are organic substance which fuilfull to neads of himse brily. Main Vitamins are A, D, EK. Lack of vitamins A mises night Windness. Similarly Lack of VItamic D leads to rickets. Sources of vitamins are fruits meat eggs milk dry fronts. Nater = Most essential in balance diet It is required to maintain body temperature It is required to lubricate the books. parts and fulfill the needs of body



Solar Projects= Many small and large projects are already completed like Quaid-e-Azam Solar Park Bahawalpur Similary about boomw solar project is under the Completion in Growadar. Conclusion= Acording to Energy Policy 2030 more than 80% of energy will be obtaine from xenewable energy. Many project are completed and some are under-working.