

Both Hydrogen atoms share. their electrons with oxygen atom and . form a covalent bond. (water) amiii2=1 (b) Doping coloubres desires The process in which impurity is introduced into the semi-conductors to enhance its conductivity is called Doping." 2-Types con basis of impurities N- Type <u>Semi-</u> conductors conductors 1- N- Type Semiconductor". The semiconductors formed as a result of dopping of a pentavalent electron donos impusity like Assente os Hintimony in the Germanity os Silicon ase called N-Type semiconductors.



• Donos impusity contributes free electrons (ST Sb G Gi ---- P 3 Sb= Antimony => added as impusity Si = Silicon in . P- Type semi-conductor prist The semi-conductors formed as a result of doping of a trivalent electron déficient împusit like Boron in Germanium of silicon are culled P-type semi-conductors 5 coolsubars "Vina Acceptor impurity creates a hole (si) Evinal aguit -M -1 Si SI B SÌ B => Boxon => Added as impurity.



Types of Ceramics				
Types	Descaiption	Uses	Examples	
	·Clay-based	• Tableware	•Delft	
Easthenware	-clay fixed at	• Decoxative		
	s elatively low	objects	0	
2	temperatore	0	in the	
	• These are	-		
	Poxous, brittle		5	
Nuc I	and colospul.			
Stoneware	·Clay-based	· COOKWODOS	• Ceramic	
	· clay fixed	· cups . Mug	- plates	
	at Climid	J. Alteri	1 10 Later	
	temperature			
	(1200°C)	1001 33	The second	
	• These are	E STARTER		
	dense, strong			
	and wates	10 March		
	resistant			
	and the second	- The state		
Poscelain	· clay-based	·Fine China	•Fine China	
	· fixed at	· Decoxative	dinner sets	
	high temperatu	figurines		
	e between	Lage ages	1 dillor	
	(1000-1450°C) They are Translucents		1. All and	
	transfucents			

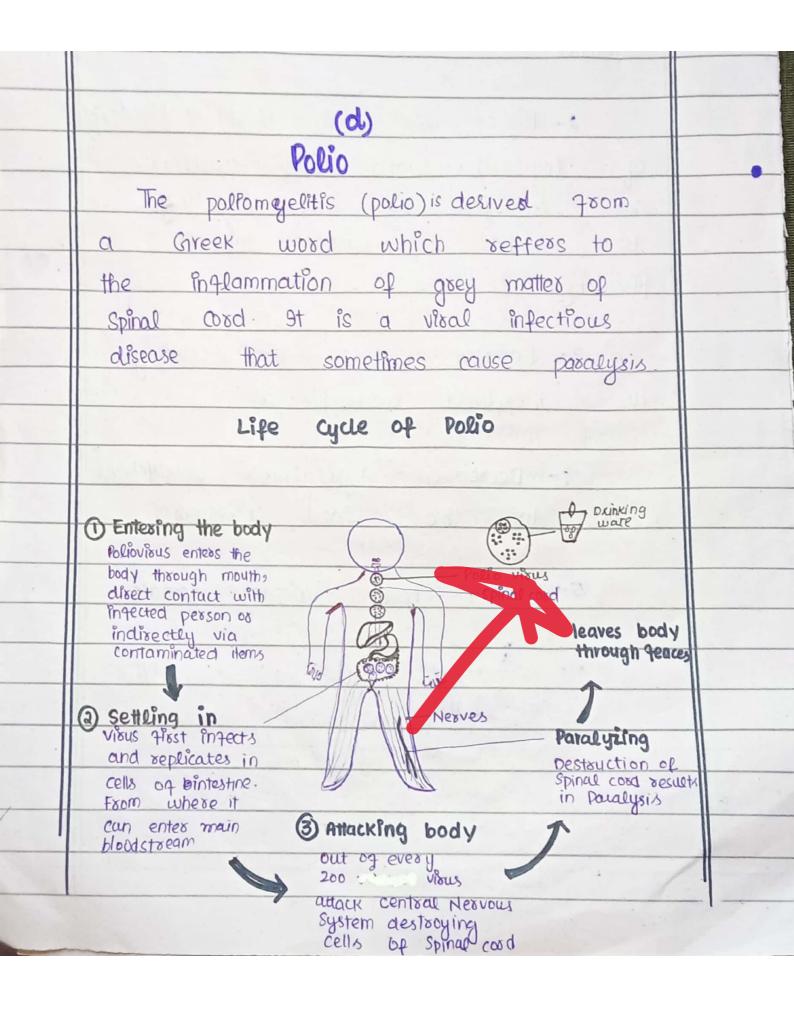


(c) Merits and demerits of Global Warming Merits of Global Warming The merits of global warming are as gollows: 1- The Arctic, Antarctic, siberia and other frozen regions of earth may experience more plant growth and milder climates. 2. The next ice-age could possibly be prevented. 3- The Northwest passage through the formerly icy canadian Arctic Archipelago could arguably open up to transportation. 4- Fewetta deaths or injuries due to asctic conditions 5- Longer joowing seasons could mean reased agricultural growth in some avecus



Demerits of Globalization 1- Changes in ocean circulation and the resulting warmer temperatures dissupt the woold's normal weather patterns, bringing about more extreme weather . 2- Higher sea levels lead to flooding of lowland. Islands and coastlands ase engulted by water leading to deaths and disease due to flooding. 3- Desexts become drier, leading to increased desertification. 4- Decordsed agricultural productions leads to the food shootages diseases increase 5-9nsect how while. 1911 3 404 to a star a star of the





CS CamScanner

Po	lio infects mostly childern and your
Q	dults.
	the Tries
	Challenges 90% eradication of
	Polio in Pakistan
	These are several challenges 700
	exadication of Polio In Pakistan
1-	Secusity challenges in some parts
	of country, particularly in the
x ab	Southern reigion of Khyber Pakhtunkhwa
6	Province
2-	Vaccine herrancy in some aseas
3 -	Surveillance gaps in Pakistani system
	needs improvement gos detection of
	polio, which leads to delayed
	detection and response to outbreak.
4-	Inadequate coverage and low
_	immunization rates in certain
	provinces and district,.
5-	Insecurity and attacks on polio.
	workers and their security personed
6-	High population mobility and
	migration across the booder
	with Agenenistan
1-	Limited access to healthcase serv.
	in semote and conflict - affected
	aveas.



Q#4	
(a) Bile Juice	
Utte Ource	Section and the section of the
BPle is a bitter tastin	g, dark green
to yellowish brown flui	rd, produced by
the lives and 9t is	s stored in
gallbladder and uppo	
discharged into duode	
The principal functi	
is to serve as a	storage reservoir
for bile	Steen on Lant - all
Composition of Bile	Julce
► water (85°/.)	all internet.
ü- Bile Salts (10°/-	
iii- Pigments (3%))
iv-Bile pigments	In the I Indignetion in
v- Fats (1°/0)	
Physical properties	of bile
Hepatic bile	Bladder bile
PH TOU	→pH 6.8
Golor golden yellow	
- Color golder Jellon	Ly Color green
•	Vellow
	•



Liver -stomach -> Duodenum Gallbladdes Bile juice Functions of blee juice O: Bile salts acts as emulsifying agents in the digestion and absorption of fats. (2) - Bile salts also acts as bactericides, destayping many microbes that may present in good. re important function 3- one of of bile is the neutralization of excess acid in stomach, before it enters the ineum. The second construction a finite for the second



(c) Methods of solid waste management. anishmid to anthola pa -> composting open < dumping Methods for solid waste management -> Landafil Incinevation (-Method 1- Open dumping · 9t is common practice which involves the open deposition of waster. in the sorroundings · Dumping sites should be away from residential, commercial areas, crops and water bodies Composting · It is the controlled biologrcal degoodation of waste mostly organic wastes (plants, animals wastes · Some parameters neede to be adjusted gos composters process 4 Carbon, Mirrogen Parameters 4 PH 4 Availability of Oxygen



Bacterial and gungal species are used goo decomposition. Bio-geometizes: As a result of composting waste in the end the composit formed can be sed a biogertilizers, rich in nutrients essential for plant growth 3- Incineration · Burning of waste material (other than organic) using incinerators is called incineration. Incinerators used are: Simple - Chambered 4 Multi - chambered 4 9 nelustrial incinerations 4- Landfill Method · Burying of the waste in barren lands. • Specific pits and landfills de positing are filled area depositing waste.

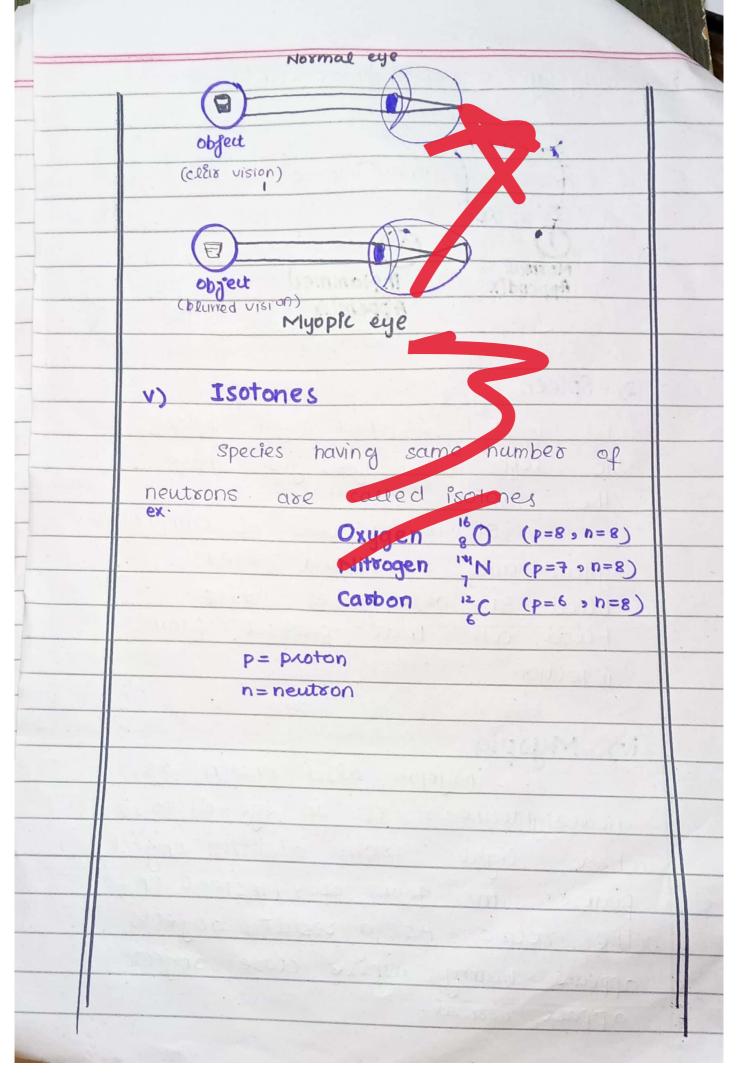


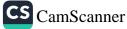
(d) is Anemia • Anemía is a blood disorder that happens when a person does not have enough sed blood cells or red blood cells dre not working as they should. Anemía can be inhexited os acquired during lifetime Symptoms 4 Chest Pain + Dizziness 4 Fatigue 4 Pale skin por shootness of . 1 breath Norma Anemía RBCS ii)- Appendictis Appendictis is a condition in which appendix becomes inglammed. It almost always requires.

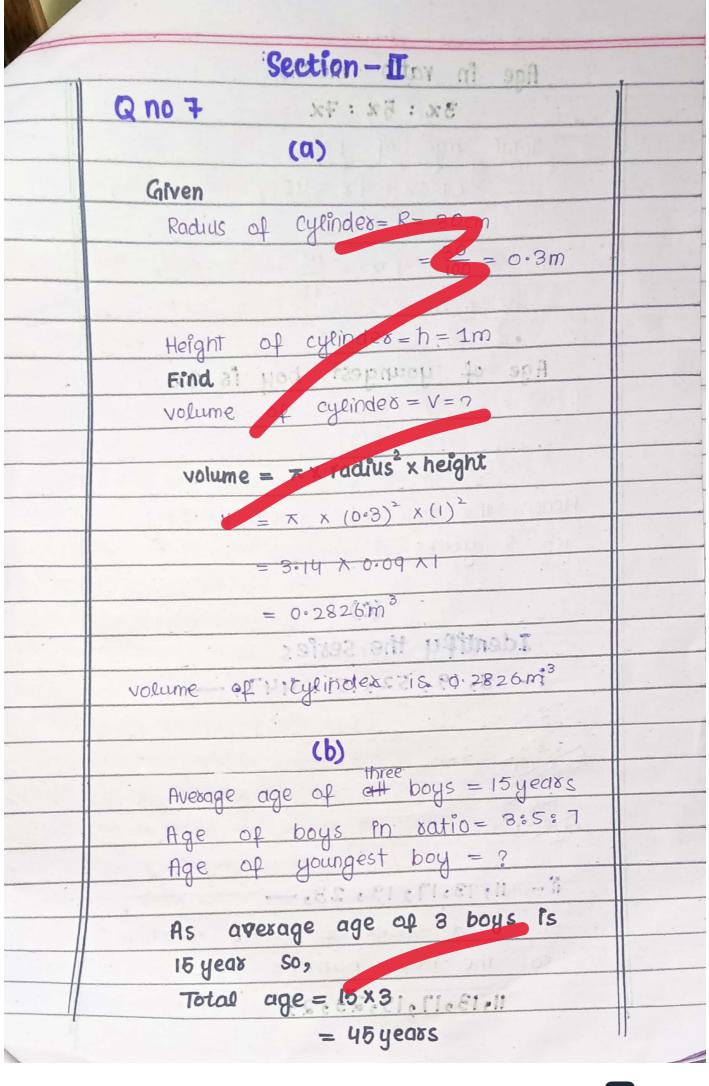


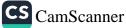
surgery as soon as passible -small intestine Normal Appendix inglammed Appendix iis Spleen 9t is a small organ inside. the left vib cage, just above the stomach. It is the part of Rymphatic system and stores and fifter blood It also makes white blood cell that protect from intection. iv) Myopiq Myopia also Known as nearsightedness is an eye-disease where light from distant objects focuses in gront to instead on, the retina As a result, objects appears blurry while close object appear normal.

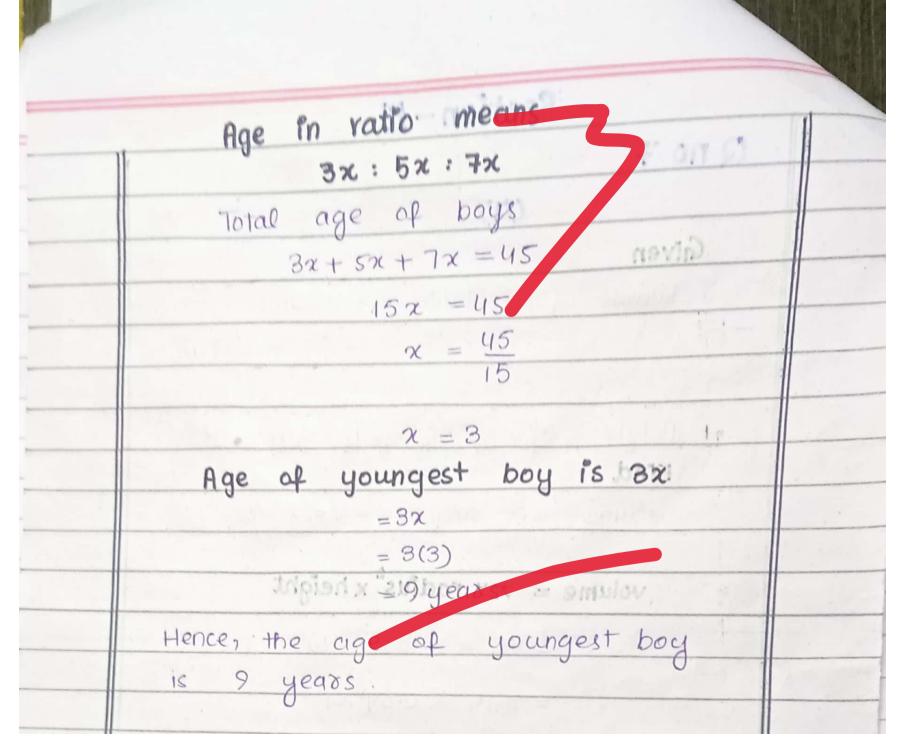














Identify	the series
3 8,19, 452,151,44	560162
Services is obtained	
Services is obtained the previous terms	by 2.37 approvimate
	a st approvinge
. 8×2.37 = 19	the provide and the
19×2.37 = 45 =>1	this is correct
45 x 2.37 = 151	Calcuentions:
151 X 2.37 = 447	
447 x 2·37 = 1060	
44 0	a revier is 52
⇒ woong no Pn th	e seu ce io
because the ans	the 19 with
after multiplying 2.37 is 45	r me ny com
complete series	
19.45.151	, 1, 1060
113 40 5 101	
ii) 13, 17, 19, 23,-	
The anias apped	is to be obtained
in adding 9, then	4, then 2, then
4 and so on in	the previous terms
13 + 2 = 13	
13+4 = 17	
17+2 = 19	
19+4=23	
23+2=25	



Q6 alt Mittach (a) (1) (2) (2) (a) Ratio of blocks = A:B:C:D 4:7:3:1 The number of 'A' blocks is 50 more than the number of 'c' blocks Calculations: Let the blocks A, B, C and D be 4x, 7x, 3x and x A = 4x 8= 7% state of a state Serie = .3n reveno ent semosi De x ant orivertium salts $4\pi = 3\pi + 50$ 4x - 3x = 50 Kolaha alalan 2 = 50 No. of B Black 72 7(50) 8 2 8 1 8 1 8 8 1 6 727 B = 50 Therefore, here are 350 B blocks 3.2 . S.S. . Pl. Pl. 81



(b) Original cost of shoes = \$80 Discount on original = 15%. cost . = 10 %. Sale tax = ? Final Price Discount calculation 15% of \$80 = 15 x80 = 0.15 × 80 Discounted price = \$12Discounted price = \$80 - \$12 = \$68sale tax calculation $10^{\circ}/.$ of \$68 = $\frac{10}{100} \times 68$ \$ 6.90 Final Pice = \$68 + \$6.80= \$74.80 So, the final price is \$74.80



