

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 | | | |

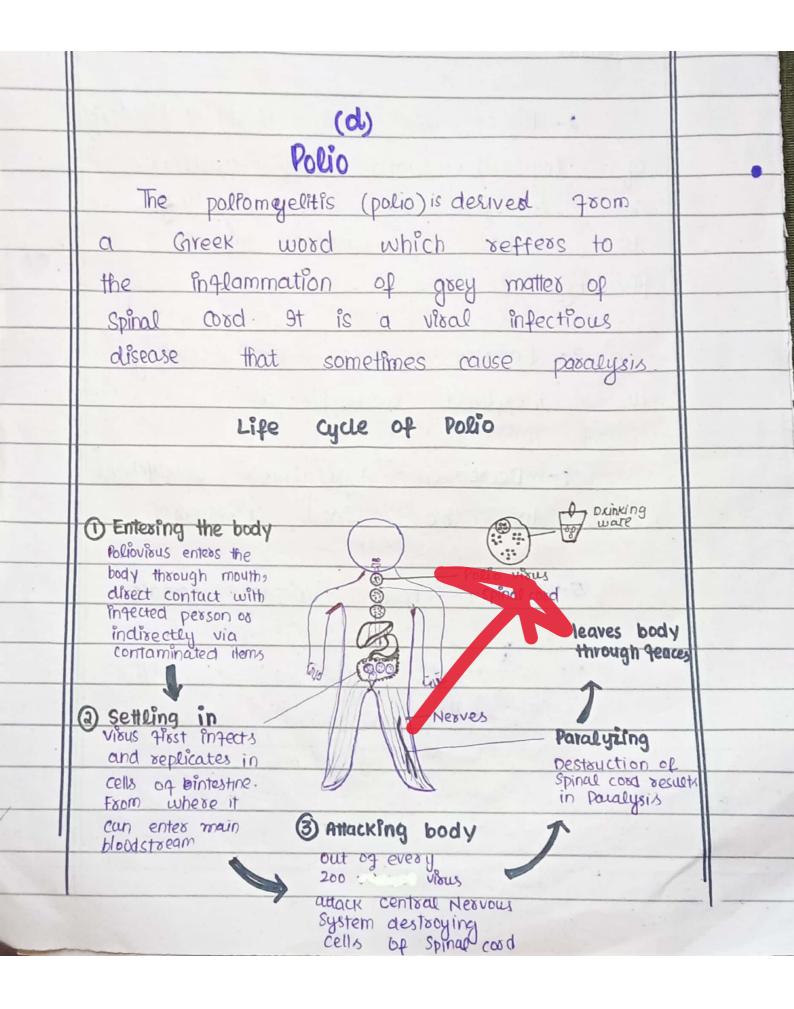


(c) Merits and demerits of Global Warming Merits of Global Warming The merits of global warming are as gollows: 1- The Arctic, Antarctic, siberia and other frozen regions of earth may experience more plant growth and milder climates. 2. The next ice-age could possibly be prevented. 3- The Northwest passage 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.

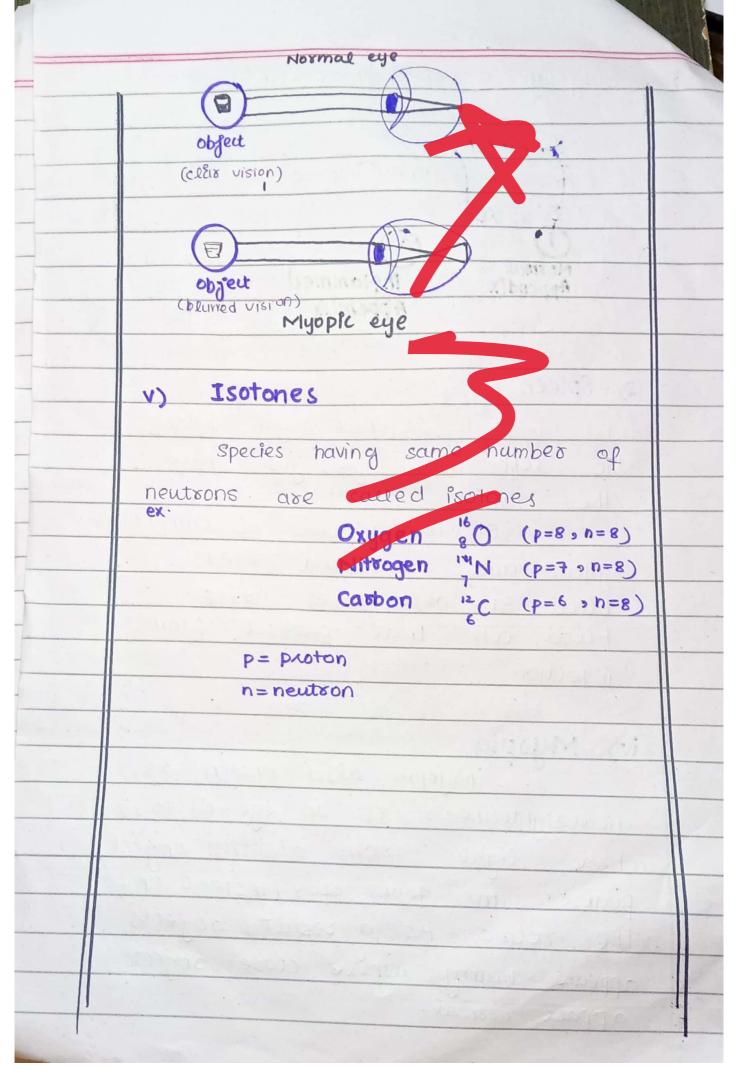


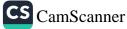
(d) is Anemia • Anemía is a blood disorder that happens when a person does not have enough sed blood cells or red blood cells dre not working as they should. Anemía can be inhexited os acquired during lifetime Symptoms 4 Chest Pain + Dizziness 4 Fatigue 4 Pale skin por shootness of . 1 breath Norma Anemía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

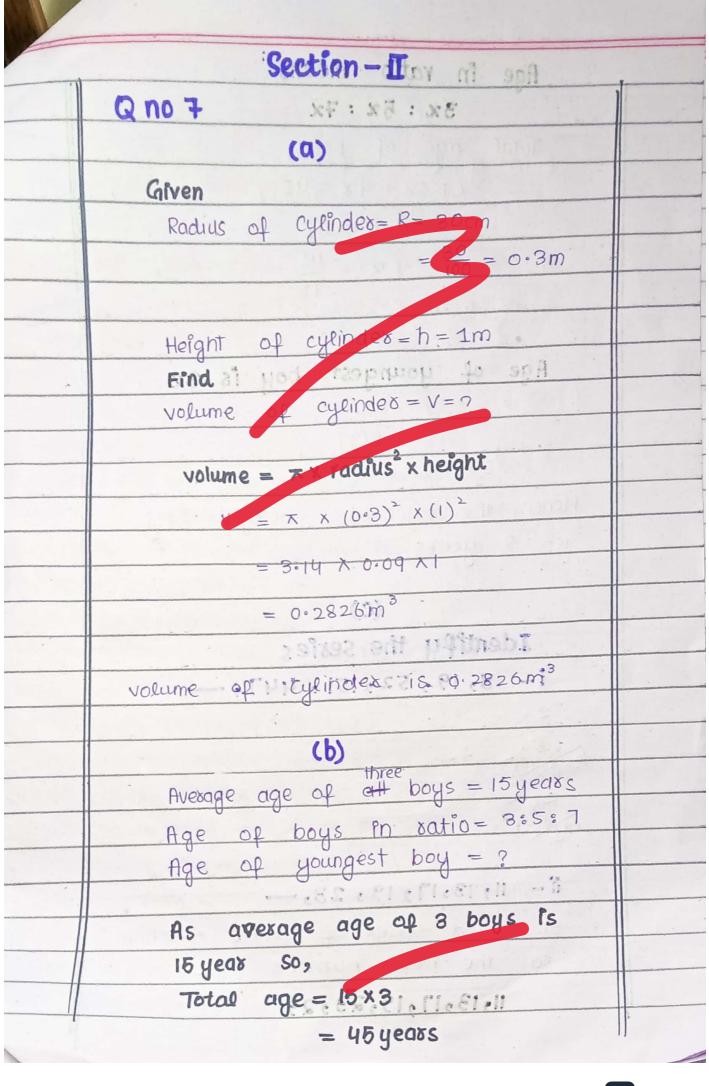


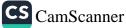
surgery as soon as passible -small intestine Normal Appendix inglammed Appendix iis Spleen 9t is a small organ inside. the left vib cage, just above the stomach. It is the part of Rymphatic system and stores and fifter blood It also makes white blood cell that protect from intection. iv) Myopiq Myopia 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.

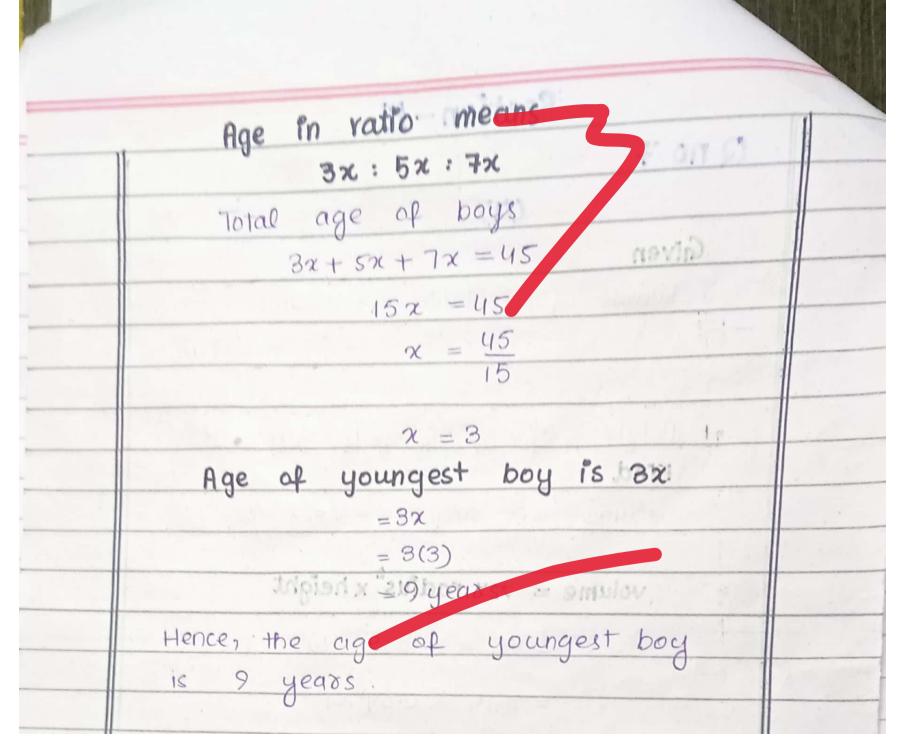














| Identify | the series |
|--|---------------------|
| 3 8,19, 452,151,44 | 560162 |
| Services is obtained | |
| Services is obtained the previous terms | by 2.37 approvimate |
| | a st approvinge |
| . 8×2.37 = 19 | the provide and the |
| 19×2.37 = 45 =>1 | this is correct |
| 45 x 2.37 = 151 | Calcuentions: |
| 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



