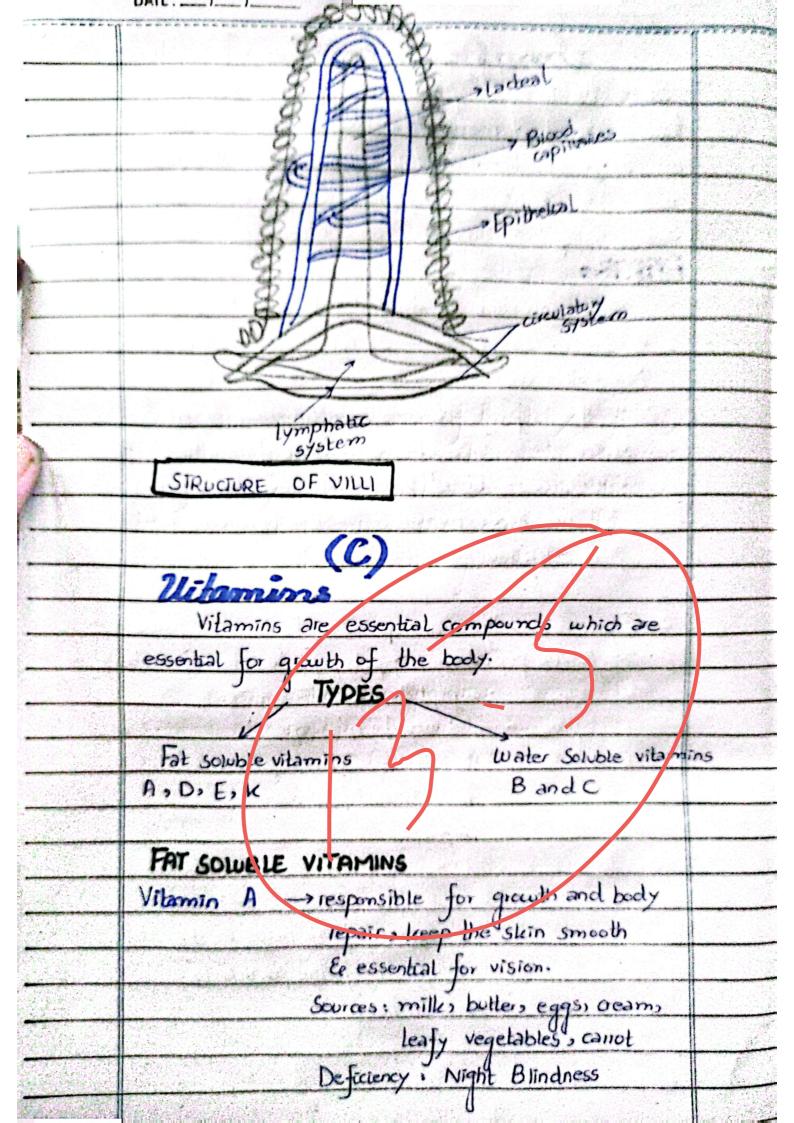
| Juestion#5:-   | -    |
|--|------|
| and the second of the second o |      |
| General Instructions (a)   |      |
| Ear with a will about  |      |
| 2. Do not write lengthy paragraphs. Write  |      |
| medium sized paragraphs with headings.  Do not use table for comparison and  |      |
| contrast questions. consists of 3 different sections   |      |
| 4. Draw figures/diagram/flowchart where  | +    |
| needed.  | +    |
| 5 Start new question from fresh page. 6. Write unit of the answer in aginty section.   | +    |
| 7. Explain mathematical steps and the  | +    |
| These all work together so you can hear and reasoning for wetter score.  | +    |
| Ove them more visibility   | #    |
| give them more visibility involve only in hearing, where as the inner part s. Manage line well.  | -    |
| 10 BNine page 100 Meris and gseappilited m along with hearing  | 7    |
| hoold be reasonable. (   |      |
| 11. Avoid writing wrong references.  12. Give more weightage to expressedly asked  | -    |
| parts of the egypostion outer funnel like Stuckure   | -    |
| 2. External auditory mebbs or auditory cannal -> S-sh  | ape  |
| Function   |      |
| The auricle of the car helps to collect sound waves  |      |
| bavelling through air and directs them into auditory   |      |
| cannal Some wave entering the auditory cannal hit  |      |
| ear drum which is the boundary between outer and   |      |
| Inner car - Sound wave vibrate the cardrom and   |      |
| the vibration is than transfered to the small bones :  |      |
| of the middle ear.   |      |
| Middle Ear Middle Car  |      |
|  | - 11 |
| I gt consist of air filled space having 3 small bones  | +    |
| called auditory ossides. There are some of the   | +    |
| Smallest bones in the body and are named after the   | rl   |

| 1. Malleus (hammer) 2. Incus (anvil) 3. Stapes (Stimp)  The handle of Malleus is attached to the ear and the bases of stapes fits into oval window. A  Eustachian tube connect middle ear to the threat.  This tube allows the passage of air blitween the tympanic cavity and outside via throat and mout   |               |
|--|---------------|
| The handle of Malleus is attached to the ear and the bases of Stapes fits into oval window. A Eustachian tube connect middle ear to the throat.  This tube allows the passage of air butween the   |               |
| the bases of slapes fils into oval window. A  Eustachian tube connect middle ear to the threat.  This tube allows the passage of air blitween the  |               |
| This take allows the passage of air blitween the   |               |
| This tube allows the passage of air blitween the   |               |
| This tube allows the passage of air blitween the   |               |
|  |               |
| The state of the via thioac and thouse   | <i>ي</i> ه. ا |
| For normal hearing, air pressure needs to be   |               |
| maintained on both sides of the eardium.   |               |
| Function   |               |
| Transmission of sound energy from the tympanic   |               |
| membrane to - inner ear  |               |
| oscilles Semicular Circular (bala Cannals (bala  | ance)         |
| Camer Camer  |               |
| 1/2 PASIGNA  | eve to        |
| The state of the s | ) (6          |
| Ear Sdrum Bochlea  | •             |
|  |               |
| Pinna Human Par  |               |
| trains the second secon |               |
| C) Inner Ear   |               |
| 9t consist of a complex system of interconne   | cting         |
| chambers and tubes called labyrinth. It is divide  |               |
| into 3 parts   |               |
| (a) cochlea - that function in hearing   |               |
| (ii) Semi curular cannals - provide a sense of   |               |
| equilibrium  |               |
| (iii) Vestibule -> bony chammber between the collegi   | ( d           |
| and semicircular cannals that is   | 79            |
| memberanos structure and involve   |               |
| in both hearing and equilibrium  |               |

|       | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                     |              |
|-------|---|--------------|
|       | Cochle as the name suggest is a small shaped                              | 1.13         |
|       | Shuchure which contain bony core and a thin bony                          | 767s         |
| ***** | shelf that winds around the core like threads of a                        |              |
|       | Sciew. They are filled with perilymph - 91 contain                        |              |
|       | many thousand stiff and elastic fibers whoes length                       |              |
|       | vary from base to apex. Vibration enters and causes                       |              |
|       | movement in fibers. The fibers in turn generate a                         |              |
|       | message that is sent to brain via auditory cannal                         |              |
|       |   |              |
|       | MECHANISM OF HEARING  |              |
|       |   |              |
|       | Sound waves -> Entering the -> Hit the eardrum                            |              |
|       | ear Hough to start chain leaction   |              |
|       | 19-20-  |              |
|       | Vibrations from   |              |
|       | ear drum passed to<br>3 small bongs of                                    | - 00/263/15  |
|       | middle Ear  |              |
|       | Stirup passes the Cochlea contain 1000s                                   |              |
|       | vibration to coiled> Elastic fibers that move                             |              |
|       | tubes in innerear and generate a nerve and generate a nerve message       |              |
|       |   |              |
|       | Brain translates  Message carried to                                      |              |
|       | it and tell what we are hearing brain via auditory neve                   |              |
|       | U   |              |
|       | (b)   |              |
|       |   |              |
|       | Otogestive Jesstoms  9t can be defined as                                 | <del></del>  |
|       |   | <del></del>  |
|       | The system responsible for the break - down of larger food particles into | <del>-</del> |
|       | down of larger food particles into  | <del></del>  |
| 1     | simpler and smaller ones that are   |              |

|           | [  |     |
|-----------|--|-----|
|           | absoarbable in the body to called  |     |
|           | digestive system 35  |     |
|           | The first of the section of the sect |     |
|           | Larger Food particles Include  |     |
|           | 1. Carbohydrates -> brokendown Into Glucose  |     |
|           | 2. Proleins -> brokendown into Amino acids   |     |
|           | 3. lipids/ fats -> broken down into fatty acids.   |     |
|           | Traverses Victional Control of the C |     |
|           | COMPONENTS OF DIGESTIVE  |     |
|           | SYSTEM   |     |
|           |  |     |
|           | Salvary glands   |     |
|           | Eesophagus   |     |
|           | Eesophagus   |     |
|           | 1. A GOLD BEEN TO BEEN THE REPORT OF THE PERSON OF THE PER |     |
| •         |  |     |
|           | twe  |     |
|           | XXXX   |     |
|           | de la fill  |     |
|           | pancreas   |     |
|           | Gobledder  |     |
|           |  |     |
|           | State Small intestine  |     |
|           | The state of the s |     |
|           | large intestine  |     |
|           | 63 60  | . 4 |
|           | Appendix Rectum - Anus   |     |
|           | Appen  |     |
|           | Signed with the strikenson engineering with  |     |
| And Carry |  |     |

|   | Small Intestine                                       |  |
|---|---|--|
|   | 9t is the Hongest part of digestive system            |  |
|   | that is about & missing Remaining digestion           | PORT OF THE STREET, ST |
|   | 1.e 90./ of digestion lakes place here. This part     |  |
|   | not only complete the process of digestion but        |  |
|   | also begans the process of absorption.                |  |
|   | PARIS:  |  |
|   | Small intestine is divided into 3 parts               |  |
|   | 1 Duodenum 20- 25cm - 9t release enterio kinase.      |  |
|   | Many other reduction process are carried out here     |  |
|   | with the help of enzymes eig Amylase convert          |  |
|   | Starch into maltose, lipase converts fate into        |  |
|   | fally acids. Enterchinase releases Typsinges          |  |
|   | that neutralizes trypsin converting poretiens into    |  |
|   | Poly petitides  | *  |
|   |   |  |
|   | 2- Jejunum -> there is a release of intestinal juices | *  |
|   | 2. Amino peptidase > polypeptide into dipeptides      |  |
|   | b. Erypsin - dipeptides: to amino ands                |  |
|   | c. lipase -> fats into fatty acids                    |  |
| 12.1                                    | d Maltase -> Gucose                                   |  |
| -                                       | e. Lactase -> Lactase to Glucose.                     |  |
|   | T Property and the second second                      |  |
|   | 3. Ileum -> contain midio fibei projettion called     |  |
|   | the villi that contain a metworke                     |  |
|   | of capillarces that helps in the                      |  |
|   | reabsorption of the nubcents                          |  |
|   | back in the body.                                     |  |
| ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) |   |  |



|  | DATE:/   |  |
|--|--|--|
|  | Vitamin B -> Important for growth of children      |  |
|  | Sources: Eggs yolks livers fish and                | 4  |
|  | Sources: Eggs yolks livers fish and                |  |
|  | Deficiency: Rickets in children                    |  |
|  | Osteoporosis in adults.                            |  |
|  |  |  |
|  | Vitamin K -> Important in blood clotting           |  |
|  | Sources: milk, fish, green vegetables              |  |
|  | Deficiency: Blood clotting disorder.               |  |
|  |  |  |
|  | Vitamin E -> Role in wound healing, prevents       |  |
|  | damage of cell due to aging                        |  |
|  | Sources: Soya bean; cotton seeds liver;            |  |
|  | Deficiency: Slow down RBes Formation               |  |
|  |  |  |
|  | WATER SOWBLE VITAMINS                              |  |
|  | Vitamin C -> Essential fri bonne protection Ee     |  |
|  | (Ascrobic actd) (ITheathy teath) 1711 10910111.100 | •.1.   |
|  | Sources: Citrus fruits quavas pineapples           |  |
|  | tomatos, Spinach, Stamberry                        |  |
|  | Deficioncy: Survey                                 |  |
|  |  |  |
|  | Vitamin B12 -> important for fat & carbohydrates   |  |
|  | metabolism of function of bloods                   |  |
|  | growth of children                                 |  |
|  | Sources: Meat, fish, vegetables,                   |  |
|  | fruits   |  |
|  | Deficiency: Anemia                                 |  |
|  | inall-resent                                       |  |
|  |  |  |
| PROPERTY OF THE PARTY OF THE PA |  | AND DESCRIPTION OF THE PARTY OF |

|  | DAIE:/   |   |
|--|--|---|
|  | Vilamin Bo : Essential for antibodies production |   |
|  | (Pyri dozine) for CNS, protein metabolism        |   |
| and the state of t | Sources: Meat, fish, pollutry Ee                 |   |
|  | Vegelables                                       |   |
|  | Deficiency: Skin problem; nervous                |   |
|  | System disorders, Muscle                         |   |
|  | Spasms, Sleeplessness                            |   |
|  |  |   |
|  | in the second (d) in the second second           |   |
|  | FUNCTION OF PITUTIARY GLANDS                     |   |
|  | It is the master gland of the body especially    |   |
|  | the anterior lobe as in addition to production   |   |
|  | of primary harmones it also produce trophic      |   |
|  | harmones that control the secretion of           |   |
|  | harmones in other endocrine glands               |   |
|  | LUBRIER BOWELLE ALPHANIA                         |   |
|  | ANTERIOR LOBE                                    |   |
| 1.   |  |   |
|  | It is also called the growth harmone SRF         |   |
|  | Becreated by hypothalmus that intum trigger      |   |
|  | the release of STH . After adolescene growth     |   |
|  | ceases sofhis harmones than promote protein      |   |
|  | Synthesis  |   |
|  | Over secretion: 1. Gigantism -> more than        | Ŷ |
|  | (during growth) mormal height                    |   |
|  | 2. Acromeagaly: -> abnormal hand.                |   |
|  | (after adolescene) Ee feat size                  |   |
|  | arried to  |   |
|  | Under Secretion: Dwar fism - slow development,   |   |
|  | Short strature                                   |   |

| 2) | Thyroid stamulating Harmone                         |      |
|----|---|------|
| 7  | Thyroxine in - Hypothalamus - Thyroxine             |      |
|    | blood Releasing                                     |      |
|    | Jacor (ITRF-)                                       | ·\$. |
|    | Thyroxine - Thyrocal - 15H - Anterior lobe          |      |
|    | It as secreted through out the life. It reaches     |      |
|    | high level during the period of rapid growth        |      |
|    | E development.                                      |      |
|    | Add diagram   |      |
| 3) | Adrenocortic Harmone                                |      |
|    | 91 To also called Cortico trophic Harmone           |      |
|    | Stertod in blood - Hy pothalamus - activating       |      |
|    | CRF (   |      |
|    | Cortico - Adrenal - ACTH - Anterior                 |      |
|    | Steroid gland                                       |      |
|    | Excess or defficiency of ACTH -> disturbance in     |      |
|    | normal advenal function                             |      |
|    |   |      |
|    | MEDIAN LOBE   |      |
|    | It secreate Melanin Stimulating harmone. Its        |      |
|    | Secreation govern by external light. Its production | 7    |
|    | increases during pregnancy - 9t stimulates the      |      |
|    | melanocytes in skin to produce melanin which        |      |
|    | daikens the skin- Excess causes Addison's           |      |
|    | disease   |      |
|    |   |      |
|    | POSTERIOR IDBE                                      |      |
| 1. | ANTI DIURECTIC HARMONE/ Vasapressin                 |      |
|    | Ot causes decrease in bp , volume and osmotic       |      |
|    | pressure of blood. Ingreased levels lead to         |      |
|    | Indease reabsorption in distal part of nephron      | 1    |

DATE: \_\_\_/\_\_\_

decrease production leads to Diabeties Inspidus ine large quantily of dilute unine and more thirst

2. Oxytorin

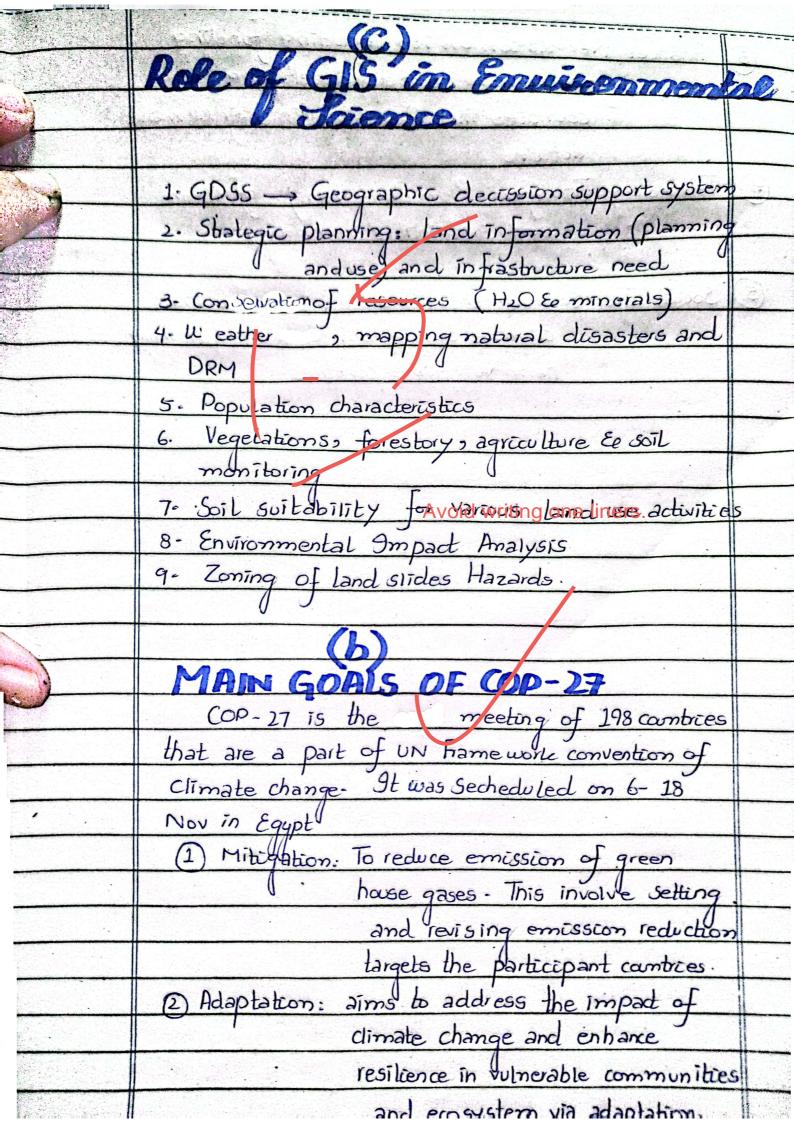
Responsible for smooth muscles combaction

during child birth and also causes ejection of

milk from memory glands.

|     | QUESTION NOA  (a) AND     |   |
|-----|---|---|
|     | En lasting and accordingly have a last and a superpose of the |   |
|     | En lasting and accordingly have a last and a superpose of the |   |
|     | (2) 3000 2000 2000 20031 -4                                   |   |
|     |   |   |
| 1.5 | CAUSES OF LAND POLITION                                       |   |
| 1)  | SOUDWASTE   |   |
|     | Human produce vast quantities of waste - in                   |   |
|     | factorices offices and schools and in such unlikely           |   |
|     | places as hospitals. Waste material sent to                   |   |
|     | land fill site which end up in polluting the environment      |   |
| 2)  | HERRICIDES INSECTICIDE AND PESTICIDE                          |   |
|     | With growing human population there is an increase            |   |
|     | in the demand of food. For more production                    |   |
|     | farmer use highly toxic fertilizers and at the same           |   |
|     | time to get tid of insects; fungi and bacteria                |   |
|     | from their crops uses different insectuides that              |   |
|     | lead to soil contamination and poisoning                      |   |
| 3)  | MINING ACTIVITY   | - |
|     | Surface miniming involves the removal of top                  |   |
|     | Soil to get the valeable rocks . This removal of              |   |
|     | top soil leads to pollution . Mostly metals are found         |   |
|     | in rocky miztures called ores from which they are             |   |
|     | extracted by chemicals electrical and other processes         |   |
|     | That leaves behind waste product which polite both            |   |
|     | land and air common methods the                               |   |
| 4)  | CHEMICAL AND NUCLEAR WASTE:                                   |   |
|     | The left over material created by nudear plants               |   |
|     | during their functioning are burried under the                |   |
|     | earth leading to Land polition.                               |   |

| 5.   | DEFORESTATION AND SOIL FROSION                    |  |
|--|---|--|
|  | Deforestation leads to dry lands and once         |  |
|  | the land become dry it can never be fertile       |  |
|  | again no matter what methodo are opted.           |  |
| 6.   | LAND CONVERSIONS                                  |  |
|  | Conversions where land is allered and:            |  |
|  | modified for use to make it worthing for 11100    |  |
|  | specific purposes is another major cause          | OF THE PARTY OF TH |
|  |   |  |
|  | (4)   |  |
|  | FUNDAMENTAL OF AT                                 |  |
|  | Back in 1950s, they other of the forest will      | Ć¢   |
|  | Minsky and Mc Carthy described intelligence as    | 7  |
|  | any task performed by a program of a machine      |  |
| the stage of Astronomy of the Stage of the S | if a human cauced out the same activity we        |  |
|  | would say that the human had to apply intelligent | e  |
|  | to accomplish the lask                            |  |
|  | Philosophy of AI                                  |  |
|  | While exploiting the power of computer 111        | /£   |
|  | Systems, the corosity of humans, ed him to        | •  |
|  | wounder " Can a machine think and behave like     |  |
|  | humans do? Thus the development of AI             |  |
|  | Started   |  |
|  | John Mc Carthy said; The science and engineering  |  |
|  | of making intelligent machines, especially        |  |
|  | intelligent computer programs                     |  |
|  | Intillegent . The Samuel and Land                 | r.   |
|  | 1. Able to solve problem                          | y.<br>   |
|  | 2- Alle to communicate well                       | en many rooms and  |
|  | 3. Able to predict fibre                          |  |
|  | 4. Able to recognice Images Ep Shapes             | ************   |



in the 265

| *           |  |
|-------------|--|
| <u>(3</u> ) | Finance: Negotiation on its including funding  |
|             | mechanism to help developing   |
| 9           | countries like Pakistan in their climate   |
|             | actions  |
| (H)         |  |
|             | Technology Transfer: Promoting transfer of clean and sustainable technology  |
|             |  |
| (5)         | Social and Environmental Justice: to ensure that   |
|             | climate change donot dis propotionally   |
|             | harm vulnerable combies  |
|             |  |
|             |  |
|             |  |
|             | BANG BANG BANG BANG BANG BANG BANG BANG  |
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