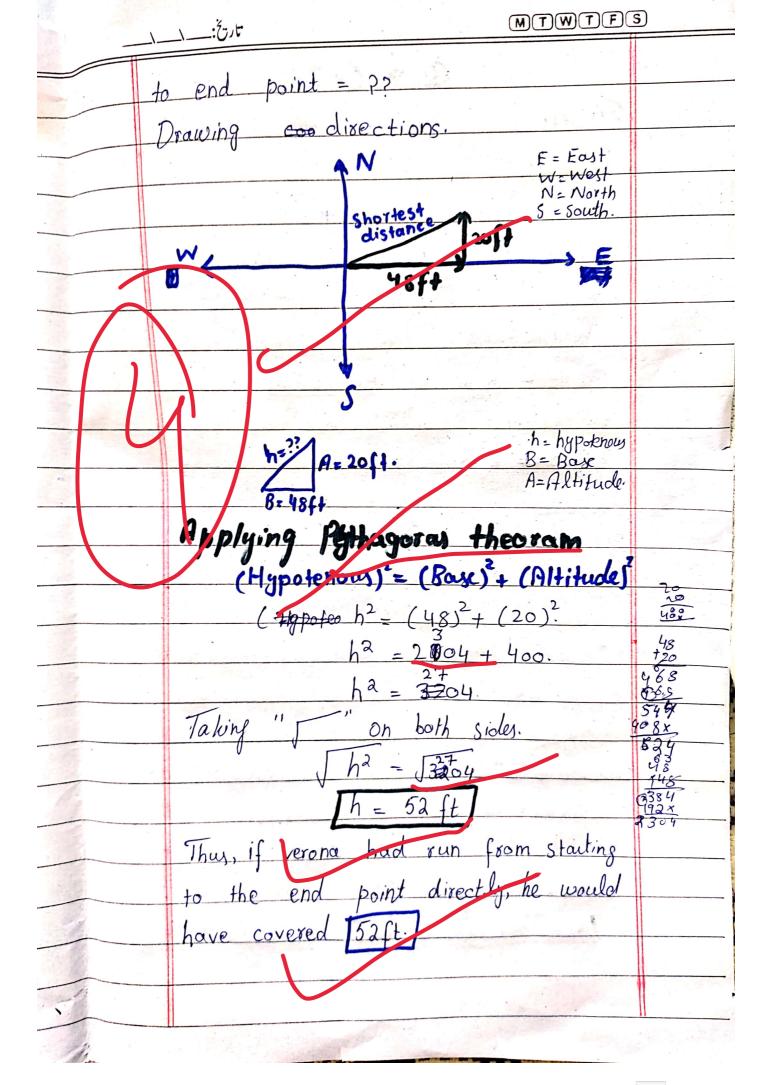
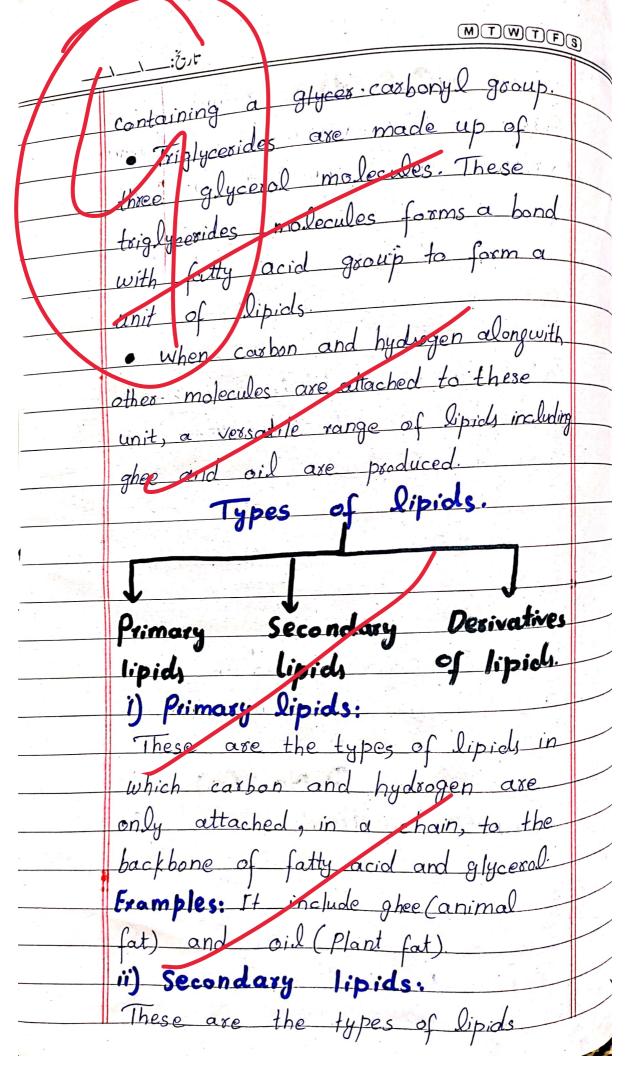


| Difference between 13 and 24 is of         | 12.4 |
|--|------|
| "11". Difference between 24 and 46         |      |
| is of " la" which is obtained by multiply  | 10   |
|  | 5    |
| 11 with p. On a similar pattern difference |      |
| between 46 and 90 15 of "44" obtained      |      |
| by multiplying "2" with "22". Difference   |      |
| between 90 and 178 is "88"                 |      |
| obtained by multiplying "44" with "2"      |      |
| In a similar way, we will multiply         |      |
| "88" with "2" which is equal to            |      |
| "176". By adding "176" in "178";           |      |
| the next number will be "354."             |      |
| The Here in hamper will be                 |      |
|  |      |
| Present ar Present ae                      |      |
| 1 resemble                                 |      |
|  |      |
|  |      |
| X. X.                                      |      |
| Q. No. 8(B).                               |      |
| veena journey towards east =               |      |
| 48ft.                                      |      |
| Veena journey towards North =              |      |
|  |      |
| 20ft.                                      |      |
| Distance covered from point of start       |      |



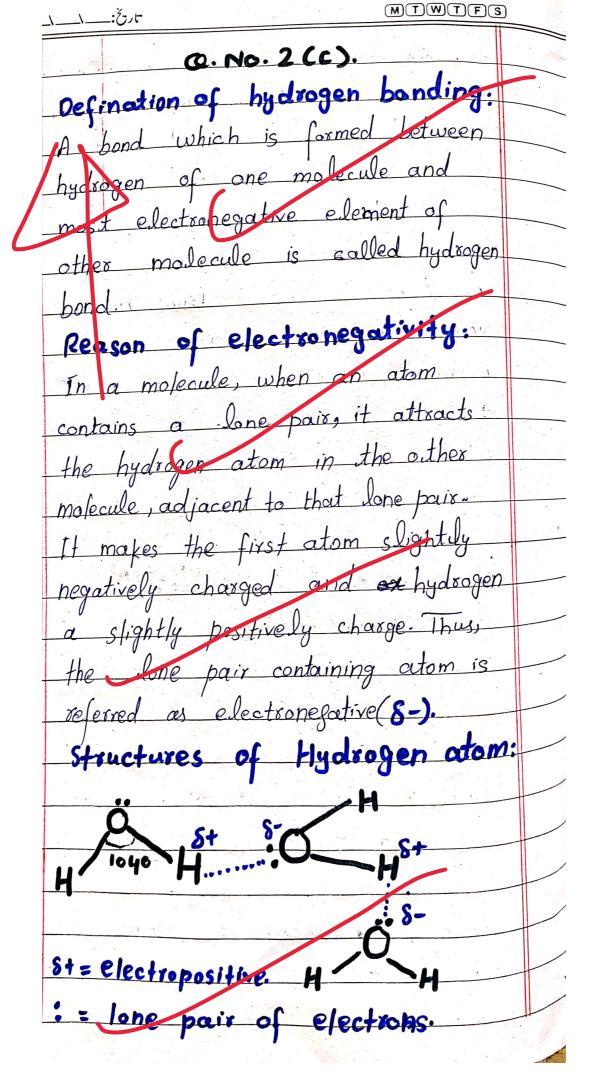
|                                  | \:ざって MTWTFS  |   |
|----------------------------------|---|---|
|                                  | Q. y. (c).  |   |
|                                  | Given: Average marks of 40 students = 52.15.                              |   |
|                                  | We know that Averagers  Average - Sum of observations                     |   |
|                                  | Average = 52.15. Number of observations = 40.                             |   |
| 5215080<br>× 40<br>× 40<br>× 40× | 52.15 = Sum of observations  52.15 x 40 = Sum of observations             | * |
| 20860.0                          | 20860 = sum of observations in first                                      |   |
|                                  | of observation was interpreted as 49                                      |   |
|                                  | instead as 85=> Difference between 49 and 85=85-49=36.                    |   |
|                                  | If we add "36" in number of observations, it will aufment the difference. |   |
|                                  | 2086.00 + 36 = new sum of observations 2122 = new sum of observations     | - |
|                                  | To find, new average.  A. New Average = 2122                              |   |
| -                                | New Average of class = 53.05  |   |
|                                  |   |   |

| 749  |  |  |
|--|--|--|
| =  | O.8(d).                                |  |
|  | Given:                                 | Property of the Control of the Contr |
|  | People like degetable Pizza =          | 37.  |
|  | People like chicken pizza              |  |
|  | People likin liking neither=           |  |
|  | Total number of people = 37+           | 2.8  |
|  | = 65-                                  | 4  |
|  | Probability ( Number likely chance     | e of event   |
|  | Possible out                           |  |
|  | Probability To Find                    |  |
| No. of the last of | Probability ( of liking chicken Pizza) |  |
| - Indiana de la companya della companya della companya de la companya de la companya della compa | - 25 = People liking chicken           | Di330  |
|  | 65 = Possible outcomes.                |  |
|  | - 13                                   | APPENDED THE APPENDED  |
|  | Thus, Probability of person liki       | ing .  |
|  | chicken Pizza is 5                     |  |
| 4  |  | *  |
|  | Q. No.2(a)                             | ).   |
| -,   | Defination of lipids:                  |  |
|  | Lipids are biomolecules m              |  |
|  | up of fatty acids and trig             |  |
|  | alongwith their derivatives.           |  |
|  | Explanation about lipid                | s  |
| -  | · Fatty acids are organic con          | mpounds  |
| -  |  | •  |

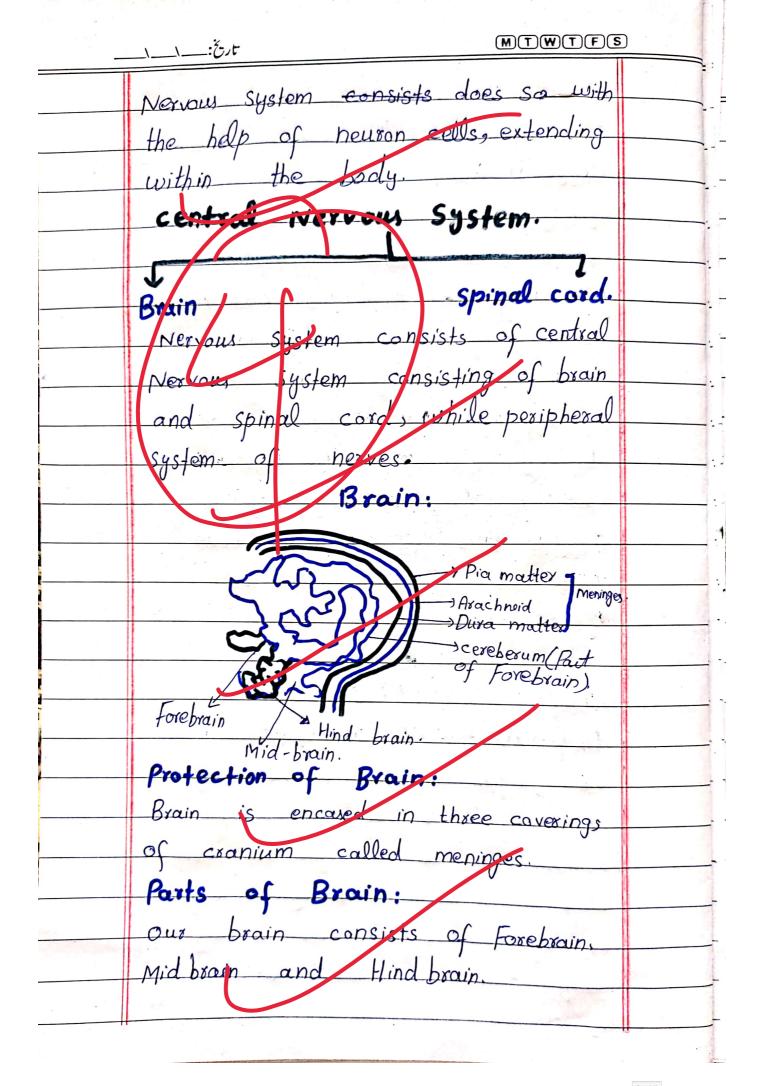


| which contains different chains of                             |  |
|--|--|
| carbon and hydrogen, of varying length                         |  |
| attached with backbone of falty acid                           | <u>.                                    </u> |
| and glycrol.   |  |
| Examples: fatty glycerol, diglyceroide,                        | <u> </u>                                     |
| etc.   |  |
| iii) Derivatives of lipids:                                    | - 14   |
| These are the lipids which are                                 |  |
| attached with other biomolecules                               |  |
| Examples:  |  |
| Phospholipids, lipoproteins etc.                               |  |
| Functions of lipids:   | -24  |
| There are different functions of lipids.                       |  |
| i) lipids provide insulation: Lipids provide insulation to the |  |
| body against temperature variations.                           |  |
| ii) lipids are important for nervous                           |  |
| function:  |  |
| lipids form myelin sheath of neurons                           |  |
| In addition, they form a large part                            |  |
| of brain Therefore, they ove vital for                         | 7  |
| nervous functioning.   |  |
| iii) lipids are good source of                                 | •  |
| energy:  |  |

| MITWIF S                                 |
|--|
| essential to two of domestic appliances  |
| (lights Fridges etc.) whenever, they are |
| not in use.                              |
| ii) Switch to renewable energy           |
| Sources:                                 |
| Non-renewable energy sources are         |
| dwindling day by day. Therefore,         |
| there is an urgent need to               |
| switch from non-renewable sources        |
| of energy to renowable like              |
| sofar, wind etc. It will help to         |
| conserve energy coming from hon-         |
| renewable sources.                       |
| iii) Digitalisation of energy            |
| usage: machinery:                        |
| Integration of tehnology with            |
| electric appliances can help to conserve |
| energy, For example, IESCO, in 2024,     |
| implemented automatic metering system    |
| which shuts down the electricity,        |
| when exceeds in capacity.                |
|  |
|  |
|  |



MTWTF3 Hydrigen Here, example of water molecule is taken to explain hydrogen bonding. Oxygen forms two bonds with hydrogen moderne to complete its octate. After bond formation one pair of electron is not involved in bonding called had lone paix. This love pair attracts the hydrogen of other unter molecule, making that hydrogen electropositive and inducing electronegativity on oxygen. This attraction between molecules of water is called hydrogen bonding Q. No. 2 (d). Defination of Nervous system: An organ system in the body which is involved in receptions transmission of messages between different parts of body, thereby forming a coordination body parts is called Nexvous System



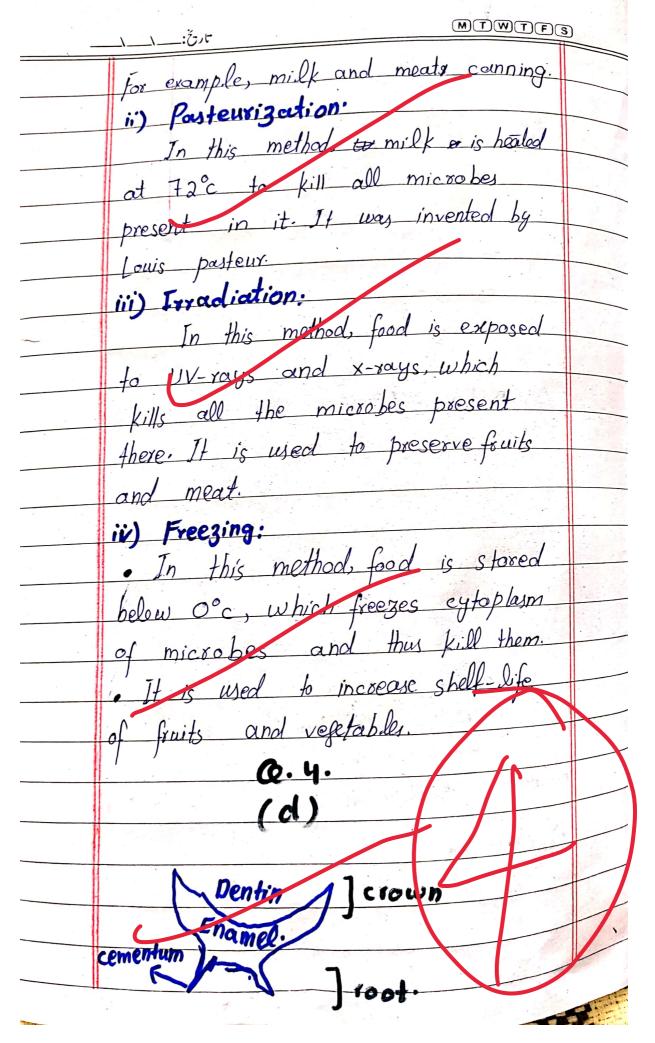
| i) Forebrain:                                    |                                       |
|--|---------------------------------------|
| . It further consists of limbic                  |                                       |
|  |                                       |
| System and cerebrum.                             |                                       |
| It is involved in learning, reprocessing         |                                       |
| of sensory information, memory                   |                                       |
| maintoinance, controlling menustral cycle        |                                       |
| etc.   |                                       |
| ii) Mid brain:                                   |                                       |
| It is involved in storing                        |                                       |
| Sensory information between forebrain            |                                       |
| and hind brain communication. Therefore          |                                       |
| it is called relay centre of brain               |                                       |
| iii) Hind brain:                                 |                                       |
| Hind brain consists of cerebellum                |                                       |
| and pons   |                                       |
| It is involved in maintaining                    |                                       |
| body balance and coordination.                   |                                       |
| b) Spinal cord:                                  |                                       |
|  |                                       |
| white cervical vertebrae Grey Thoracic vertebrae |                                       |
| nother -   | -                                     |
| / lumber see febrae.                             |                                       |
| Sacral/cocygeal.                                 |                                       |
| Spinal cord is present inside                    | · · · · · · · · · · · · · · · · · · · |
| the vertebral column.                            |                                       |

| 3 |
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|        | ーー\\_; で MTWTFS  |
|--------|--|
| )TFS   | varying from Hepatitis A virus (HAV),                                      |
| 2      | Hepatitis B virus (HBV) and Hepatitis  C virus (HCV).                      |
| ration | a) HAV: This virus is known to   |
| nauan  | be found in freces. It is transmitted                                      |
| xves   | because of unhygienic water and  |
|        | sanitation.  |
| 5 2 3  | b) HBV: This virus is transmitted  |
| y      | through infectious razors, towels,   |
| rf     | blades etc. It is more acute than.   |
|        | Hepatitis A virus.   |
|        | c) HCV: This virus is selso  |
|        | transmitted due to unhygienic conditions.                                  |
|        | It is also transmitted by infectious sexum, spremen and other body fluids. |
|        | Symptoms of bepatitis.   |
|        | a) Jaundice is the visible symptom   |
|        | of hepatitis. Eyes turn yellow, due  |
| - E    | to bilixubin.  |
|        | 6) Weakness and lethary due to   |
|        | high concentration of bile in blood.                                       |
|        | c) vomiting  |
|        | d) diarrhea.   |
|        | e) water in soft tissues due to inability                                  |
|        |  |

| \:を)t   | )       |
|---|---------|
| lives to form albumin   |         |
| Prevention from hepactitis.   |         |
| a) vaccination available for HAV                                      | <i></i> |
| and Hcy which can prevent   |         |
| hepatitis   | F       |
| 6) Avoid using already used xxxxxxx                                   | - 4     |
| towels etc  |         |
| c) Deal with blood of patients by                                     |         |
| using gloves.   |         |
| d) maintain hygienic conditions.                                      | ÷       |
| Q.4.(b).  |         |
| There are a number of food.  preservation methods available including |         |
| ald and new methods.  |         |
| old methods of Good   |         |
| Preservation:   |         |
|   |         |
| Fermentation solling. Dehydration                                     |         |
| ) Fermentation;   |         |
| Fermentation is a method in which                                     |         |
| bacteria and other microoxganisms                                     |         |
| act on a food and produce   | 1 2     |
| ethanol and lactic acid, thereby                                      | AC      |
| increasing shelf-life of the food. This                               | 4.8.5   |
|   |         |

| -         | تارخ:اا_  |                      | MTWTFS   |
|-----------|-----------|----------------------|--|
| 7 - 40,00 | method is | used to presen       | ve milk  |
|           |           | of goguert and       |  |
| , j       | ii) salti | 'ng.                 |  |
|           |           | method, food is      | immersed   |
|           | 11        | salty covering. The  |  |
|           | 11 .      | the bacterial en     | / 11   |
|           | 1         | 2 thus increasing    |  |
|           | of food   | For example, fruits  | and vegetable  |
|           |           | preserved by this    |  |
|           | 11        | dration:             |  |
|           |           | ydration, water is e | apelled out  |
|           | V         | food. Thus, bacter   |  |
| · ·       | 11        | deal envisonment     | 0 1  |
|           | thus pre  | venting food from    | obterioxation.   |
| <u> </u>  |           | t days, meet wa      | 1  |
| -1776 =   | through   | this method.         |  |
| ·         | NE        | w Methods            | <b>S</b>   |
| r,        | F         | food Preserva        | ien  |
|           | J         |                      |  |
|           | canning   | Pusteurization Irrad | lidition Free3ing  |
|           | i) canni  | 09: 4                |  |
|           |           | methods product      | is Stored  |
|           |           | in can after hea     | , and the second |
|           |           | microorganisms ent   | V  |
|           |           |                      |  |



MTWTFS تارنځ:\_\_\_ا\_ Human tech mounty consists of crown and root. cown: It is the visible upper part of the teeth. It further consists of Enamel and dentin. a) Enamel: It is the postion of teeth that recieves blood and nervous supply from be yout. b) Dentin: is the hardest part of feeth. It is odern thick part. It is used to chew the food. It is the part of teeth which recieves blood supply and nerve supply beneath the crown. It consists Include diagrams and flowcharts for competitive entire: It is the portion Discuss practical applications sof anchored scientific concepts. Show all steps and working for calculations. Use diagrams and graphs