Auswers

Answers

| Outline Notes: Molecules of Life Cha   | carbolydrate   |              |
|--|--|--------------|
| 4 Main Groups of organic compounds elements  | CH OH  | de           |
| 1. COADS CHOCKETTAIN CONTRACTOR OF THE PROPERTY OF THE PROPERT | п 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |              |
| 2. Proteius CHON   | HO OH H OH H CH-OH   |              |
| 4. 1:0:05 6HO with a more considered and the constant of the c | A CONTRACTOR OF THE PROPERTY O |              |
| MARKET PARK AND THE PROPERTY OF THE PARK AND | glucose fructose   | -0/ <i>I</i> |
| Carbohydrates /  | 113  | ==0          |
| Main source of Short term (quick) energy for living the composed of carbon, hydrogen and oxygen  | nings.   | _            |
| Ratio of 1C: 2 H: 10xygen  |  |              |
| 130mor   |  |              |
| Examples of Carbohydrates  |  |              |
| Cellulose- gives plants  |  |              |
| Starch-in plants   | 8  |              |
| olycogen - form of sugar storage in animal's muscles   | phydrate) Bolein   |              |
| Monosaecharide- one sugar Molecyle (monomer of carbo Disaccharide- two Sugar units   | ×  |              |
| Disaccharide- two units Polysaccharide or more   | G<br>Ø   |              |
|  | 8  |              |
| Proteins Composed of Carbon, Hydrogen and Nitrogen   | ed together (monomer)  |              |
| Proteins are made of Polypet de chains of amino acids joine  | ed together (monomer)  |              |
| 20 types of $\frac{H + N + O}{2}$ acids  | ed together (monomer) primary structure (amino acid sequence)  |              |
| Proteins help to fight and repair cells  |  |              |
| Determines characteristics expressed in organism (such as hair color, Examples of Proteins   | eye color, tallness)   |              |
| Skin, Hair, horas, , Some hormones such as stero:  | Enzymes  |              |
| Enzymes speed 4/1 the rate of chemical reactions   |  |              |
| Without Fazyaes the reactions would be too slow  | w to support life processes. Enzymes act as a  |              |
| catalyst-reduces the amount of activation energy needed for a chemical Enzymes - They are often by ending in '   | "_ace" , I   |              |
| Each enzyme has anpH and temperatur  | re Saturated   |              |
| ¥  | o, 111111111   |              |
| Lipids composed of carbon, hydrogen and some oxygen  | o  |              |
| Fatty acid- Lange structure (monomer)  | Unsaturated  |              |
| Contain <u>concentrated</u> energy bonds between C and H   | °C-G-G-G-G-G-M H   |              |
| lipids are used for long-term entry storage.   | о й й й й й гос-С-с-н<br>й й й й й й й й й й й й й й й й й й й   |              |
| Lipids are <u>nonpolar</u> $Mo/e cu/e s$ .  Do not $dissolve$ in water (insoluble)   | ***  |              |
| Lipids are also important parts of biological membranes and  | coverings.   |              |
| Examples of Lipids   | I . 医型   |              |
| oils, wax, cell membranes Steroids such as testerone   | Palar Phospholi  | â            |
| Saturated $\frac{f_0 + f_s}{f_0}$  | Plasma membrane head Phas  | oL           |
| Triglycerides-three fofty acids  |  | s١           |
| Phospholipids- fatty acids plus phosphate group  |  | E11 (EV      |
| Hydrophilic end- Love in water Konpoler tell  Hydrophobic tail- insoluble in H   |  |              |
| Lipids that make up cell membranes   | acid   |              |
| Contain: 2 fatty acids   | Recurations 202 202 202 202 202 202 202 202 202 20   | å            |
| Glycerol and a phosphate group   | Samuerde   E/92   E/92   |              |
| Nucleic acids structure is nucleotides (monomer)   | العالق من المناف   | ,-           |
| Contains 5499 group, phosphate and nitrogen base   | Q 6 6 6  |              |
| Store and <u>frons from</u> of genetic information   | سيريخ بل   | 4            |
| Examples of Nucleic Acid:  |  |              |
|  |  |              |