OLUKUMILE ADBFOLAKE. OLABISI ONABANJO UNIVERSITY DEPARTMENT OF BIOCHEMISTRY REMO CAMPUS, IKENNE CH3100-2014/2015 HARMATTAN SEMESTER EXAMINATION Time Allowed: 3 Hours Course Code: MDB 200/BCH 201 Date: 19th June, 2015 Instruction: Answer All Questions. Course Title: General Biochemistry I (a) Using appropriate examples and equations, distinguish between a conjugate base and a conjugate acid. (b) What is pH? (c) Determine the pH of 0.05 mol. dm⁻³ solution of ethanolamine, given that the K_b 12 = 2. EXI value of ethanolamine is 2.8 x 10⁻⁵. \2---functional granteend to it Explain the following terms Enantiomers mmor Images Jhuose = galactuse - manuations (1835) Anomers Epimers Diastereoisomers 1V. Show a specific glycosidic linkage in a named sugar Uluose. With appropriate examples, enumerate the functions of nucleotides in the cell. 30 musor de 2 Ht f-1011 Draw the structure of a named nucleotide Adenosini Highlight the differences between DNA and RNA. Adeonine Sphino Write short note on lipid solubility and structure Acleniosine butyri ant b. Differentiate between the following pairs Fats and oils sphmos me Camus prone Sphingolipid and phospholipid Estrogen and androgen -) 19 cmm kero iii. egicai emg LDL and HDL iv. Essential fatty acids and non essential fatty acids. V. A peptide was identified to contain the following amino acids Alanine, Valine, Glycine, Histidine, Methionine, Glutamine, Proline Classify the amino acids on the basis of polarity Using appropriate structures draw five possible peptides that can be formed from the amino acid components CH Wishedmen Name the peptides 111. What is the primary bond in the peptides drawn above? 13th allen Teladin What other possible bonds may be present in the peptides? Short Unono Oalsosc 出いらったかつかしょへい Drosphatt. Firm