CENTER FOR SANDWITCH PROGRAMME
OLABISTONABANJO UNIVERSITA, REMIC CAMPUS
2009/2010 RARMATTAN SEMESTER EXAMINATION
BCIL 2011 INTRODUCTION TO BIOCHEMISTRY

Date. Saturday 20th of March, 2010

Time Morred Whith -S

Describe the Bio-polymer nature showing existing bonds in the Following:

(i) Carbonydrates - peptida, bond in the (ii) Proteins Anna Cod (iii) Nucleic, acid — M-9 & cosyl bond ware Capital of (iii) Nucleic, acid — M-9 & cosyl bond (iii) Nucleic, acid — M-9 & cosyl bond (iii) A strong acid e.g. HCI - encusion start to be act on board (iii) A strong base e.g. NaOH start north act of a configuration of a complete of buffer.

b. Define the term BUFFER CAPACTIY — compared to the fearth and so the constituent of any 3 examples of buffer.

Actale by the constituent of any 3 examples of buffer.

3. Prof. Tayo, in one of his Xerodeemal pigment sum research works, need to maintain his cultures preparation and is 0.02. Given that:

Molar mass of CH3COOH (60.04g), CH3COONa (80.05g), Pka of the buffer is 4.74, density (1.11). Showing all calculations in volved analysis.

eiting all precautions, describe briefly, how he will go about in

4a. Define the term LIPIOS.

b. Classify LIPIDS, citing two biochemical examples each.

c. Using 2 classified examples, describe nomenclature process of LH IDS

5a. (i) What is plil?

(ii) Which is the best method to determine Ph of a given substance, and why? PH-neter & According and read in december place

(iii) What is the importance of buffer solution.

(iv) What is the importance of indicator in any laboratory experiment.

4-7

D. T. ()

How can you differentiate the following: Kelose sugar from aldose sugar. (ii) Protein from non protein substance (iii) - amino acid from non -amino acid Monosaccharide from disaccharides. 5c. Prove that at 1/2 titration between weak acid and strong base Briefly classify amino acids based on the nature of their alkyl group. Highlight the general properties of amino acids. Wite short notes on any two of the following: Plasma protein Protein conformation (iii) Secondary bonds of proteins. - Ni & Mphile Com Medroge HA ->AT+和 parca = SIED+[A] · ka = 2 HT] + SMI] / S-EAD-V Toda d'adog si pour sia Ka [Ha] = [H/t]+[A-] log pra = log [th]+ log [th] Ht = Karthai