## OLABISI ONABANJO UNIVERSITY

## FACULTY OF BASIC MEDICAL SCIENCES DEPARTMENT OF BIOCHEMISTRY

2012/2013 HARMATTAN SEMESTER EXAMINATION

COURSE CODE: BCH 201/MDB 202.1 COURSE TITLE: GENERAL BIOCHEMISTRY I

DATE: 10th January, 2014

TIME ALLOWED: 2 Hours 30mins

Theory (Paper II)

INSTRUCTION: ANSWER FIVE (5) QUESTIONS ONLY

(a) Give a detailed description of the process of RNA synthesis.

(b) Describe the processing of the nascent RNA in the cytoplasm. Puly (clarkyahm C pour

(a) Describe the following major classes of sugars giving at least two examples each

(ii) Epimers (iii) Enantiomers

(b)j. Draw the structure of ribose

ii. How many stercoisomers does this sugar possess? Explain

Briefly classify lipids based on their structures.

What are plasma proteins?

Copy and Complete the table below

NAD <sup>‡</sup>	Vitamin source	Type of reaction	Carly Hate James A
FAD	-VII 63	Julian - Walling	即と上版的への最近の意味と表現
Pyridoxal Phosphate	C. D. C. Maring	Waldahin-Koduchin	
Biotin	Vic. Blompleae ho	- myann	Min in Chivu
Thiamine Pyrophosphate	-PI	Decarbo xylahin	(3)

s) habte short notes on (actione d'Engangerais fanainnais 9 histoire in 1) Tromsismi ble michells medar course unto con lacidis

What do you understand by the term (i) Buffer solution (ii) Buffering Capacity ( Describe (showing calculations) how you will prepare a 0.20M Sodium Acetate buffer of pka pI-1 4.74 (Given Molar masses of CI-I3COOH=60.04, CI-I3COONa=80.05, density of CH3COOH=1.11 and % purity = 80%) 19/07 = 4-7-6 Write short notes on the following

(i) Phosphodiester Bond (ii) Nucleoside (iii) RNA (iv) DNA