

NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF AGRICULTURAL SCIENCES DEPARTMENT OF ANIMAL SCIENCE AND FISHERIES 2020_2 EXAMINATION ...

COURSE CODE: ANP 308

COURSE TITLE: Metabolism of Carbohydrates, Lipids, Proteins And Nucleic Acids

CREDIT UNIT: 2 CU

TOTAL SCORE: 70 MARKS **TIME ALLOWED: 2 Hours**

INSTRUCTIONS: ANSWER QUESTION 1 (25 MARKS) AND ANY OTHER THREE (15

MARKS EACH)

- Q1 Briefly explain the classification of sugars 15 marks. a b Describe the following types of protein structure: 5 marks Tertiary structure i Quaternary structure ii What are saturated and unsaturated fatty acids. 5 marks c Q2 Write short notes on the following: i Sucrose (cane Sugar) Oligosaccharides ii 15 marks Q3
- Explain in details what you understand by secondary derived proteins. 15 marks
- Explain transamination and oxidative deamination of L-glutamate. 15 marks Q4
- Q5 State and explain the types of lipids you know. 9 marks a
 - State the importance of lipids 6 marks b
- **Q**6 Enumerate the factors that affects absorptions of lipids. 8 marks a
 - What are blood lipids. 7 marks b