



UNIVERSITY OF AGRICULTURE, ABEOKUTA
 COLLEGE OF ANIMAL SCIENCE AND LIVESTOCK PRODUCTION
 DEPARTMENT OF ANIMAL PRODUCTION & HEALTH
 Second Semester 2009/2010 Academic Session

APH 506: DAIRY PRODUCTION

Instruction: Answer All Questions in Sections A and B, and only one from Section C

Time Allowed: 3 hours

Section A

1. Write short notes on the following:
 - a. Casein
 - b. Lactose
2. Below are the different chemical tests usually carried out on dairy products. Supply the missing information in the table below:

S/N	Chemical Tests	Wavelength of measurement	Colour of complex formed
1.	Alkaline Phosphate Test	405nm	.....
2.	.....	505nm	Pink complex
3.	Ammonia concentration test	700nm	.....
4.	Milk Urea Nitrogen test	700nm	.....
5.	.....	505nm/545nm	Violet complex
6.	.....	505nm	Red complex
7.	Chloride test	505nm	.....

Section B

3.
 - a. Mention the three main dairy schemes in Nigeria
 - b. Write concisely on the Nigerian 'Urban dairy'
 - c. What are the major problems militating against the Nigerian 'Urban dairy'?
 - d. Enumerate the advantages of 'Rural dairy scheme'.
4. Mention and give the distinguishing characteristic features of two exotic and two indigenous dairy breeds of cattle.

Section C

5.
 - a. Fill in the gaps below:

Solids-not-fat = Protein;; enzymes;; and

Total solids = plus Fat

Skim milk (plasma) = milk minus

Whey (serum): skim milk minus
 - b. List the series of systems that made up the 'Udder'
6.
 - a. What are the constituents of Milk?
 - b. Write a concise note on Milk Fat and Milk Protein under the following headings:
 - i. Biochemistry.
 - ii. Importance in nursing of the young
 - iii. Importance in milk and milk products as foods for humans.