

APH505

3 hours

Animal Products and By-products

(a) Draw a well labelled diagram of an egg and explain the function(s) of each part.

Answer All questions

(b) Enumerate the proteins available in the albumen (5 Marks) (c) Explain the effects of the following factors on egg quality

Name of subject:

Full title of paper:

Time allowed:

Instruction:

1.

UNIVERSITY OF AGRICULTURE, ABEOKUTA DEPARTMENT OF ANIMAL PRODUCTION AND HEALTH 2009/2010 FIRST SEMESTER EXAMINATION

(9 Marks)

	(i) Age of the he	en (ii) Nutrition	(iii) Disease	(2 Marks each)	
2.	(a) Explain the physiochemical changes involved in the conversion of muscles to meat.(b) Mention eight (8) stressors that could result in the depletion of glycogen in farm animals before slaughtering.				
3.	 (a) With the aid of a flow chart only, describe the process involved in the production of lactose, whey protein concentrate and whey protein isolate. (5 Marks) (b) Milk from cows being treated with antibiotics is often withheld from milk supply for processing, why? (6 marks) (c) State the end products of the following processes: 				
	(i) Raw milk	separation Clarification	and	d	(2 marks)
	(ii) Raw milk	precipitation (after sepa	aration)		(1 Mark)
	(iii) Cream	Churning		(1 Mark)	
-	(d) Write short (i) Sour cream	notes on the following (ii) Beverage	milk (2½ N	Marks each)	
4.	 (a) List and describe the various metabolic and biological phenomenon within the animal carcass or which meat qualities depends (7 marks) (b) Discuss three methods of meat preservation (7 Marks) (c) Describe the six categories of heat-treated preserves (6 Marks) 				
5.	(a) Describe two (2) main factors that will affect the yield of animal by-products. (b) Discuss fully the economic importance of three animal by-products to the meat processing factory				



DEPARTMENT OF ANIMAL PRODUCTON AND HEALTH 2008/2009 FIRST SEMESTER EXAMINATION

UNIVERSITY OF AGRICULTURE, ABEOKUTA

Name of subject: APH505 Full title of paper: Animal Products and By-Products Time allowed: 21/2 Hours Instruction: Answer four (4) questions in all.

- a.) Briefly explain five (5) factors to be considered when meat is to be used for sausage production.
- (21/2 Marks).
- b.) Prepare a 2,000g chicken sausage giving the following ingredients in percentage;
 - Ingredients
 - - Percentage Chicken meaf 52
 - Gillets
 - 20 Wheat flour 0.05 Ascorbic Acid
 - 1.85 Seasoning Water 13.10
 - c.) Explain the following in terms of Post -Mortem changes in meat:
 - i.) Circulatory failure to the muscle
 - ii.) pH decline
 - iii.) Enzymatic degradation
 - 2. Write short notes on the following;

 - b.) Egg formation.

(iii) Butter (iv) Cream (v) Skimmed milk

3.

- a.) Explain the economic importance of four (4) animal by- products to the pharmaceutical industry.
- b.) Identify four main factors that will affect the quality of hides and skins.
- a.) Discuss the significance of milk processing to human health 4. b.) What are the conditions of raw milk that will ensure the development of a yogurt culture. c.) With the aid of a flow diagram ONLY describe the stages involved in milk secretion and production
- - a.) Briefly discuss the subdivisions of milk products. 5.
 - b.) What do you understand by the following terms? i.) Whey (ii) Starter culture
- $(12^{1}/_{2} \text{ marks})$ a.) The significance of egg qualities to the poultry industry. (5marks)

- 13
 - - - (8 marks)
- - - (7 marks)