



SLIATE

SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

Higher National Diploma in Technology (Agriculture)

First Year - 1st Semester Examination 2017

AG 1104 - Non Ruminant Management - Poultry

Instructions for Candidates:

Answer all questions.

Answer part I & II in the paper itself & will be collected after 1 hour

No. of pages : 04/05

No. of questions : 07

Time : 3 hours

Index Number:

Q 1

PART - I

1. Calculate the feed conversion ratio for a flock having 100 birds which were fed with 345 kg of feed and their body weight gain was 199 kg.
 - a. 1.73
 - b. 0.58
 - c. 1.67
 - d. 0.65

2. What is the function of **crop** of the digestive system of poultry?
 - a. Swallowing of feed
 - b. Partial enzymatic digestion
 - c. Temporary store the food and release
 - d. secret HCl and gastric juice

3. What is the best form of feed suitable for early stage of chicken?
 - a. Crumble
 - b. Pellet
 - c. Mash
 - d. Water mixed powders

4. What is the optimum depth of the litter needed for a broiler house?
 - a. 0.5 to 0.8 inches
 - b. 3 to 4 inches
 - c. 6 to 7 inches
 - d. 12 to 14 inches

5. What is the starvation period for poultry chicken for slaughtering?
 - a. 12 - 18 hours
 - b. 06 - 07 hours
 - c. 22 - 24 hours

- d. Less than 6 hours
6. What is the advantage of scalding methods used during processing of poultry chicken?
- To cook the chicken
 - To kill the microbes
 - To remove the feathers easily
 - To dissolve the skin
7. Which of the following is NOT an advantage of having roosts?
- It will not help to broodiness.
 - It reduces the soiling of the litter.
 - It helps to keep the birds' feet and plumage clean.
 - It helps to increase the fertility rate.
8. What is the part of the poultry reproductive system responsible for fertilization of egg?
- Magnum
 - Infundibulum
 - Isthmus
 - Ovary
9. What is the volume of a standard fowl egg?
- 58.0 ml
 - 53.0 ml
 - 59.6 ml
 - 50.0 ml
10. Which of the following is NOT an advantage of providing proper ventilation during brooding of poultry?
- Remove CO₂ exhaled by birds.
 - Remove NH₃ from feces.
 - Remove CO from gas brooders.
 - Provide adequate moisture for cooling the poultry house.
11. Which of the following is a characteristic of Asiatic Class breeds?
- Small bodies and rose ear lobes
 - Tinted or brown shelled eggs
 - Shank feather cannot be seen
 - White color shells
12. A flock of layer birds produced 1250 eggs and the candling test showed that 90.4 % was the fertility rate. Good eggs were incubated and produced 999 day old chicks. What is the amount of non-fertile eggs of the flock?
- 1130
 - 120
 - 251
 - 130

13. What will be the hatchability percentage of the above mentioned flock?
 - a. 96.00
 - b. 88.40
 - c. 98.89
 - d. 90.60

14. What is the range of eggs that can be allocated for a broody hen to incubate?
 - a. 1 or 5 eggs
 - b. 6 or 8 eggs
 - c. 12 or 15 eggs
 - d. 20 or 25 eggs

15. Which of the following is a characteristic to cull a layer bird?
 - a. Comb and wattles may be big and reddish
 - b. The pubic bones are flexible and not close together
 - c. The abdomen is hard and tight
 - d. The vent is big, moist, and non-pigmented

16. What is the recommended floor space needed for a grower bird in open house system?
 - a. 1 square feet
 - b. 1.2 square feet
 - c. 2 square feet
 - d. 2.5 square feet

PART II

Question no (2)

I. State two functions of Large intestine.

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(3 marks)

II. What are the impacts of early sexual maturity in poultry?

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(3 marks)

III. List 3 (three) methods used to stun the birds during slaughtering of poultry.

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(3 marks)

IV. State what types of hens should be culled when rear poultry for commercial purpose.

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(3 marks)

(Total 12 marks)

Question no (3).

1) What are the classes of poultry based on utility?

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(3 marks)

2) List three characteristics of dual purpose type breeds of poultry.

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(3 marks)

3) Name 3 advantages of free range poultry rearing system.

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(3 marks)

4) Name three types of feeders used in poultry farming.

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(3 marks)

(Total 12 marks)

PART III

(4)

- a. Describe the breeding and multiplication process in poultry. (05 marks)
- b. Clearly state the guidelines for selection of breeding stock in poultry. (10 marks)

(5)

- a. Explain the terms fertility and hatchability used in a poultry hatchery. (05 marks)
- b. Clearly explain a prophylactic program to prevent disease in layer management. (10 marks)

(6)

- a. What are the stunning methods used for poultry slaughtering. (05 marks)
- b. Describe the ways of preventing floor eggs in layer management. (10 marks)

(7) Write short notes on of the followings topics

- i. Characters of good litter materials. (05 marks)
- ii. Characters of good healthy chicks. (05 marks)
- iii. Two stage and three stage feeding methods for broilers. (05 marks)