

M.Sc. Examination, 2017
Semester-III
Animal Science (Poultry)
Course: PSC-503
(Commercial Layer Production)

Time: Three Hours

Full Marks: 50

Questions are of value as indicated in the margin.

Answer **any five** questions.

1. Elaborate management of commercial layer farm. 10
 2. Describe effect of nutrition on egg quality. 10
 3. Write short notes on (**any four**): 2.5x4=10
 - i) Commercial Strains of layer type chicken
 - ii) Antinutritional factor and digestibility
 - iii) Toxin binder
 - iv) Probiotic
 - v) Non-antibiotic growth promoter
 - vi) Designer egg
 - vii) Disinfectant
 - viii) Acidifier
 4. Explain alternative feed sources in layer chicken diet. Describe vaccination schedule of layer poultry. 5+5=10
 5. Define Biosecurity. State different measures of biosecurity in poultry farm. 3+7=10
 6. Describe the characteristic post mortem lesion, preventive and therapeutic treatment (**any four**): 4x2.5=10
 - 1) Bird Flu
 - ii) Ranikhet
 - iii) Gumboro
 - iv) Coccidiosis
 - v) Infectious bronchitis
 - vi) Fowl pox
 - vii) Salmonellosis
 - viii) Chronic Respiratory Disease
 7. Describe nutrient requirements of layer type chicken. Write different pointers of quality egg production. 5+5=10
 8. Prepare economics of 1000 birds layer farming. 10
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M.Sc. Examination, 2018
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Answer any five questions

1. Describe grower and layer management. 10
 2. Elaborate methods of designing egg. 10
 3. Describe nutrient requirement of layers for a longer production cycle and high performance. 10
 4. Prepare economics of 1000 birds layer farming. 10
 5. Describe ideal amino acid profile for layer chicken. State different factors affecting quality and quantity of egg production. 5+5=10
 6. Describe vaccination schedule of layer poultry. State different measures of bio-security in Poultry farm. 5+5=10
 7. Write short notes on 2.5x4=10
Answer any four
 - i) Synbiotic
 - ii) Carcass disposal
 - iii) Layer chicken breed
 - iv) Feed enzyme
 - v) Unconventional feed resources used in poultry feed
 - vi) Disinfectant
 - vii) Organic poultry farming
 - viii) Anti nutritional factor
 8. Describe the characteristic post mortem lesion, preventive and therapeutic treatment 2.5x4=10
Answer any four
 - i) Marek's disease
 - ii) Colibacillosis
 - iii) Pullorum disease
 - iv) Chronic Respiratory disease
 - v) Coccidiosis
 - vi) Infectious coryza
 - vii) Fowl cholera
 - viii) Aspergillosis
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M.Sc. (Ag.) Examination, 2019
Semester-III
Animal Science (Poultry)
Course: PSC-503
(Commercial Layer Production)

Time: 3 Hours

Full Marks : 50

Questions are of value as indicated in the margin.

Answer **any five** questions

1. What do you mean by layer? Mention few hybrid strains being used for commercial layer. Highlight the status of poultry farming in India with special reference to egg industry. 2+2+6=10
 2. Highlight the deep litter vs cage system of rearing commercial layer chicken. Mention the space requirement for various physiological stages of layer chicken in deep litter system. Write the advantages and disadvantages of deep litter system for rearing poultry. 3+3+4=10
 3. Describe, in short, feed and water management for commercial layer birds. How much feed is required for a layer chicken daily during laying period? 9+1=10
 4. What are the diseases of layer chicken commonly seen in India? Describe in short common health management protocol in an organized layer poultry farm.
 5. Describe, in short, how the following practices are being carried out in a layer poultry farm: 2.5×4=10
a) Debeaking b) Brooding c) Culling d) Disinfection of farm
 6. Prepare a bankable project of commercial poultry farm with 10,000 birds, including bank loan repayment schedule. Consider a subsidy of Rs. 10000 from State Government for preparing economic part of the project. 10
 7. Describe in Short, the etiology, symptoms, prevention and control of the following poultry diseases **(any four)**: 2.5×4=10
a) Newcastle Disease b) Fowl Pox c) Coccidiosis d) Infectious Bursal Disease
e) CRD
 8. Write short notes **(any four)** : 2.5×4=10
a) Food additives b) Cannibalism c) Light management in layer shed
d) Bird flu e) Organic poultry farming f) Designer egg g) Automation in poultry farm
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M.Sc. (Ag.) Examination, 2020
Semester-III
Animal Science (Poultry)
Course: PSC-503
(Commercial Layer Production)

Time: 3 Hours

Full Marks : 50

Questions are of value as indicated in the margin.

Answer **any five** questions

1. Mention the aetiology, symptoms, prevention & control of the following diseases:
a) Ranikhet, b) Coccidiosis, c) Fowl fox, d) Chronic Respiratory Disease 2.5×4=10
 2. State different means of bio-security in layer farm. 10
 3. Describe the vaccination schedule in layer farm. 10
 4. Elaborate points for grower and layer management. 10
 5. What are the different systems of rearing layer birds? Describe in details. 2+8=10
 6. What is moulting? How is it related with egg production? 3+7=10
 7. Write short notes on (**any four**) 2.5×4=10
a) Culling, b) Feed additives, c) Probiotic, d) Brooding, e) Depigmentation,
f) Egg bound condition
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M.Sc. (Ag.) Examination, 2021
Semester-III
Animal Science (Poultry)
Course: PSC-503
(Commercial Layer Production)

Time: 3 Hours

Full Marks : 50

Questions are of value as indicated in the margin.

Answer **any five** questions

1. Write short note 2.5x4=10
 - a. Ranikhet Disease
 - b. Coccidiosis
 - c. Chronic Respiratory Disease
 - d. Gumboro disease

 2. Describe Vaccination schedule of Layer birds. Elaborate bio security measures of poultry farm. 5+5=10

 3. Describe importance of use of water sanitiser and different options. Elaborate management of cage system of management. 5+5=10

 4. Explain different factors causing uneven growth and low egg production. Describe methods for producing value added egg production. 5+5=10

 5. Describe deep litter layer farm management Explain induced moulting. 5+5=10

 6. Describe management of layer birds during peak egg production. State lighting programme for egg type birds. 5+5=10

 7. Write short note on 2.5x4=10
 - a. Debeaking
 - b. Pause
 - c. Hen day egg production
 - d. Hen housed egg production

 8. Explain Brooder management and Grower management. 5+5=10
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Name of the Examination: M.Sc in Animal Science (Poultry)

Semester: III

Year: 2022

Subject: Commercial Layer Production

Paper/Course: PSC-503 Half:

Time: 3 Hours

Full Marks: 50

Answer **any five** questions

1. What do you mean by deep litter management of poultry birds? What are the advantages of Californian cage system? 5+5=10
 2. Ideally where should be the location of a poultry house/farm? What should be the orientation of poultry house in hot weather prevailing area. Provide the explanation regarding considering such orientation. What do you mean by environment-controlled houses for layers? 5+2+3=10
 3. What are the advantages of All-in All-out system in poultry layers? What are the probable causes of low egg production in commercial chicken layers? 5+5=10
 4. State the managemental practises to be taken to prevent heat stress in birds during summer. What types of records should be kept in a layer farm? 5+5=10
 5. State the lighting programme to be followed in layer farm and its importance? What do you mean by FCR (Feed Conversion Ratio) in layer birds, how is it calculated? What do you mean by forced moulting? 5+3+2=10
 6. What are the precautions to be taken for vaccinating poultry? What do you mean by cold chain in relation to vaccine? State four important vaccines of layer chicken and their route and age of administration. 5+2+3=10
 7. Short note/ Define the followings (any four) 2.5x4=10
 - a. Beak Trimming
 - b. Moulting
 - c. Multiple batch system in poultry layers
 - d. Water quality in layer farm
 - e. Unconventional feed
 - f. Bird Flu
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