

C-6114

Sub. Code

80114

B.Sc. DEGREE EXAMINATION, APRIL 2022

First Semester

Poultry Science

**POULTRY PRODUCTION SYSTEMS, HOUSING,
AUTOMATION AND EQUIPMENTS**

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Backyard system
2. Conventional cages
3. Comfort zone
4. R value
5. Nest box
6. Dubbing
7. Automation
8. Climate
9. Hatchery
10. Insulation

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Semi-intensive system.
Or
(b) Tunnel ventilation.
12. (a) Selection of site for poultry house.
Or
(b) Furnished cages.
13. (a) Candling of hatching eggs.
Or
(b) Types of roof.
14. (a) Debeaker.
Or
(b) Automation in egg collection.
15. (a) Macro environment.
Or
(b) Feeding of broilers.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write in detail on floor space, watering and feeding space requirements for different age groups of poultry.
Or
(b) Describe in detail on applications of automation in poultry industry.

17. (a) Describe in detail on cage and deep litter systems and compare them.

Or

(b) Describe in detail on brooding equipment used in poultry farm.

18. (a) Describe in detail on Environmentally controlled poultry houses.

Or

(b) Describe in detail on factors influencing micro climate of poultry house.

C-6115

Sub. Code

80123

B.Sc. DEGREE EXAMINATION, APRIL 2022

Second Semester

Poultry Science

INCUBATION AND HATCHERY MANAGEMENT

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

Short answer questions :

1. Incubation
2. Selling
3. Hatchery
4. Candling
5. Hatching eggs
6. Egg cool room
7. Physiological zero
8. Hatchery waste
9. Pedigree hatching
10. Grading the chicks

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Hatchery location
Or
(b) Malformation
12. (a) In – hatch vaccination
Or
(b) Multistage incubator
13. (a) Reasons for poor hatchability
Or
(b) Break open study
14. (a) Storage of hatching eggs
Or
(b) Effect of variation in temperature of eggs
15. (a) Incubation periods for different poultry species
Or
(b) Quality control in hatchery operations

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write in detail on biosecurity measures followed in modern hatchery.
Or
(b) Physical requirements of incubation.

17. (a) Write an essay on methods of incubation.

Or

(b) Write in detail on hatchery operations.

18. (a) Diagnosis of hatchability problem.

Or

(b) Role of computers in hatchery operations.

C-6116

Sub. Code

80124

B.Sc. DEGREE EXAMINATION, APRIL 2022

Second Semester

Poultry Science

**POULTRY NUTRITION AND FEED MILLING
TECHNOLOGY**

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Proventriculus
2. Nutrient
3. Pellet
4. Aflatoxin
5. Maize
6. Soyabean oil cake
7. Grinder
8. Rickets
9. Curled toe paralysis
10. Broiler

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write briefly about classification of feed ingredients.

Or

- (b) Explain briefly about Conventional feedstuffs.

12. (a) Write briefly about Nutrient requirements of layer chick and grower.

Or

- (b) Explain briefly about Probiotic and prebiotic.

13. (a) Write briefly about Crumble feed preparation.

Or

- (b) Compare Horizontal and vertical mixer.

14. (a) Explain briefly about Storage of raw materials.

Or

- (b) Write briefly about Proximate analysis.

15. (a) Write brief answer about Duck feeding methods.

Or

- (b) Write briefly about Lay out of feedmill.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write in detail on digestive system of poultry with neat diagram.

Or

- (b) Write an essay on metabolic disorders in poultry.

17. (a) Write an essay on feeding management of Japanese quails.

Or

- (b) Write in detail on Feeding standards for different age groups of turkeys.

18. (a) Write an essay on Feed milling equipments.

Or

- (b) Write detailed answer on Physical and chemical evaluation of feed ingredients.
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C-6117

Sub. Code

80132

B.Sc. DEGREE EXAMINATION, APRIL 2022

Third Semester

Poultry Science

PRINCIPLES OF POULTRY BREEDING

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Effects of Domestication
2. Lactation Period
3. X-linked recessive inheritance
4. Genetic linkage
5. Strain Formation
6. Random Mating
7. Advantages of tandem method
8. Disadvantages of artificial selection
9. Success rates of artificial insemination
10. Common breeding programmes

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write short notes on genetics of economic traits.

Or

- (b) What is autosexing? Explain.

12. (a) Give an account on law of segregation and recombination.

Or

- (b) How do you differentiate the homozygous and heterozygous individuals?

13. (a) Define the following: random mating and inbreeding.

Or

- (b) Discuss the genetic basis of variability in poultry breeding.

14. (a) Give short note on tandem method and ideal breeding programme.

Or

- (b) Explain about the independent culling levels and selection index.

15. (a) Effects of inbreeding and crossbreeding.

Or

- (b) Classify the methods of mating in poultry farm.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write an account on origin and breed characteristics of poultry.

Or

- (b) Discuss in detail about the qualitative traits and autosexing.

17. (a) Explain in detail about the sex linked inheritance.

Or

- (b) Define the following: pedigree selection, progeny testing, crossbreeding.

18. (a) How do you differentiate the selection of egg type lines and meat type lines?

Or

- (b) Write an essay on factors influence the breeding for high hatchability.
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C-6120

Sub. Code

80142

B.Sc. DEGREE EXAMINATION, APRIL 2022

Fourth Semester

Poultry Science

BROILER PRODUCTION

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define Per capita consumption.
2. Name two commercial strains of broiler.
3. Define stocking density.
4. How do you calculate the average daily growth rate?
5. How do you calculate FCR?
6. Write the difference between crumble and pellet.
7. Name the common summer diseases in broiler.
8. Name any two monsoon diseases in broiler.
9. Explain core temperature.
10. What is traceability?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Discuss the present status of broiler production in India.

Or

- (b) Give a brief note on the production cycle of the broiler.

12. (a) Briefly explain the preparation of the house for stocking one-day-old chicks.

Or

- (b) Analysis and discuss the infrastructure facilities required for growing broiler.

13. (a) Give a short note on the EEF and CFCR.

Or

- (b) Briefly describe the finisher feed proximal composition.

14. (a) Discuss the major problems during the summer season for broiler production.

Or

- (b) Briefly explain the winter management for broiler production.

15. (a) Explain the status of the processed broiler meat market in India.

Or

- (b) Write a note on the world status of the broiler market.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write an essay on the role of the NGOs in broiler production.

Or

- (b) Discuss in detail the status of broiler production in Tamil Nadu.

17. (a) Write an elaborate note biosecurity procedure for broiler production.

Or

- (b) Write a review on major diseases in the broiler chicken.

18. (a) Write a note on backyard type of broiler production and explain its merits and demerits.

Or

- (b) Discuss in detail intensive type of broiler production with cost analysis.
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C-6121

Sub. Code

80143

B.Sc. DEGREE EXAMINATION, APRIL 2022

Fourth Semester

Poultry Science

POULTRY DISEASES AND FLOCK HEALTH

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Signs for viral diseases
2. Fowl pox
3. HP lesions
4. Infectious Coryza
5. Ectoparasites
6. Aflatoxin
7. Fly control
8. Disinfection
9. Infection vs agents
10. Post Vaccination

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Brief an Etiology of viral diseases.

Or

- (b) Write short notes on prevention and control of viral diseases.

12. (a) Differentiate between FC and IC.

Or

- (b) Explain the host and transmission methods of bacterial diseases.

13. (a) Brief the metabolic diseases.

Or

- (b) Detail on protozoan infection.

14. (a) Write short notes on farm premises and fencing.

Or

- (b) Explain the recommended producers for flock health.

15. (a) Explain the Factors affecting water vaccine activation.

Or

- (b) Describe the vaccine preparation and administration.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Detail on diagnosis, treatment, prevention and control of viral diseases.

Or

- (b) Discuss about gross and HP lesions, treatment prevention and control of Bacterial diseases.

17. (a) Describe the Ecto and Endo parasitic diseases.

Or

- (b) Explain in detail the bio security measures in flock health.

18. (a) Comment on sanitation and disinfection procedures in flock health.

Or

- (b) Detail on general principles and precautions of administering medication.

C-6113

Sub. Code

80113

B.Sc. DEGREE EXAMINATION, APRIL 2022.

First Semester

Poultry Science

APPLIED AVIAN ANATOMY AND PHYSIOLOGY

(2019 onwards)

Time : Three Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define comb.
2. Write a small note on integumentary parts of the chicken
3. Nasal cavity
4. Types of blood vessels
5. Discuss the functional unit of the kidney in bird.
6. The function of Pneumatic bone
7. Explain gizzard
8. Structure of Egg
9. Bone marrow
10. Explain poultry behavior

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Give a detailed account of the comb and its types.

Or

- (b) Explain physiological standards in poultry.

12. (a) Discuss lungs, air sacs, and their function.

Or

- (b) Briefly explain the types of blood vessels and their components.

13. (a) Explain the physiological function of the kidney in birds.

Or

- (b) Discuss the pneumatic and medullary bones in birds

14. (a) Give a note on the role of the mouth and esophagus in the digestive system.

Or

- (b) Briefly explain the egg formation and its composition.

15. (a) Discuss the role of the pineal gland in birds.

Or

- (b) Explain the general principles of poultry behavior.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write in detail the anatomy of birds.

Or

- (b) Explain the respiratory system of avian.

17. (a) Write an essay on the avian circulatory system.

Or

(b) Explain in detail the reproductive system of poultry.

18. (a) Elaborate on the nervous system in poultry with suitable diagrams.

Or

(b) Write in detail on the endocrine system of poultry.

C-5664

Sub. Code

**16/17/23/25/
26/27/29**

**Common for All U.G. B.Sc./B.B.A. DEGREE
EXAMINATION, APRIL 2022**

First/Second Semester

ENVIRONMENTAL STUDIES

(2019/2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. ZSI.
2. WII.
3. What is renewable energy?
4. Food web.
5. Pyramid of numbers in aquatic ecosystem.
6. Red data book.
7. List out any five Endemic species of India.
8. List out marine pollutants.
9. *Ex Situ* Conservation.
10. Enlist Option Values of Biodiversity.

Part B

(5 × 5 = 25)

Answer **all** the questions.

11. (a) Write notes on definition, scope and importance of environmental studies.

Or

- (b) Write notes on soil erosion and desertification.

12. (a) Write notes on energy flow in the ecosystem.

Or

- (b) Write notes on threads to biodiversity.

13. (a) Write notes on Biodiversity at Global, National and Local levels.

Or

- (b) Write notes on various strategies of conservation of Biodiversity.

14. (a) Write notes on ecological pyramids.

Or

- (b) Write notes on air pollution.

15. (a) Write notes on noise pollution.

Or

- (b) Write notes on effects and control measures of nuclear hazards.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write an essay on the multidisciplinary nature of Environmental Studies.

Or

- (b) Write an essay on the following resources with special emphasis to how they are overexploited/utilized which in turn damage the environment, (i) Forest Resources and (ii) Food Resources.

17. (a) Write an essay on “India is a mega-diversity nation”.

Or

- (b) Write an essay on Biodiversity and their values.

18. (a) Write an essay on causes, effects and control measures of (i) Marine Pollution and (ii) Water Pollution.

Or

- (b) Write an essay on concept, structure and function of ecosystem.