

C-8450

Sub. Code

80113

B.Sc. DEGREE EXAMINATION, APRIL 2023

First Semester

Poultry Science

APPLIED AVIAN ANATOMY AND PHYSIOLOGY

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Comb
2. Beak
3. Feather tract
4. Medullary bone
5. Larynx
6. Avian RBC
7. Glandular stomach
8. Cloaca
9. Seminiferous tubule
10. Oviduct

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain briefly the role of skin.
Or
(b) Write briefly about GALT.
12. (a) Explain briefly about the functions of heart.
Or
(b) Write briefly about role of kidney.
13. (a) Write briefly about Pineal gland.
Or
(b) Explain briefly about Bursa of fabricius.
14. (a) Give a brief account of types of comb.
Or
(b) Write briefly about components of blood.
15. (a) Explain briefly about gizzard.
Or
(b) Explain briefly about the physiology of stress.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write in detail on avian respiratory system with a neat diagram
Or
(b) Describe in detail on circulatory system with a neat diagram.

17. (a) Describe in detail on general principles of poultry behaviour

Or

(b) Describe in detail on integumentary parts of chicken.

18. (a) Explain in detail on male reproductive system with suitable diagram.

Or

(b) Describe in detail on avian immune system with neat diagram.

C-8451

Sub. Code

80114

B.Sc. DEGREE EXAMINATION, APRIL 2023

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. All-in-All-out system
2. Construction co-efficient
3. Brooding
4. Automation
5. Reverse cages
6. Tunnel ventilation
7. Nest box
8. Fumigation
9. EC house
10. Linear feeder

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain briefly about system of rearing.
Or
(b) Write briefly about criteria for selection of poultry house site.
12. (a) Write briefly about advantages of intensive system over extensive system.
Or
(b) Compare the All-in-All-out system and backyard rearing.
13. (a) Describe in brief about open sided poultry house.
Or
(b) How will you create comfort zone inside the poultry house?
14. (a) Write briefly about types of roof materials used in poultry house.
Or
(b) Explain briefly about type of brooding equipment used in poultry house
15. (a) Explain briefly about advantages of automatic feeding system in poultry house.
Or
(b) Write briefly about advantages of automatic watering system in poultry house.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) What are the advantages of cage system of rearing? and write in detail about type of cages used in poultry houses.

Or

- (b) Write in detail about role of macro and micro environment on poultry performance.
17. (a) What is ventilation? Write in detail about types of ventilation system used in poultry house.

Or

- (b) List out the equipment used in poultry house and write the utility of each equipment.
18. (a) Write in detail about application of automation in poultry house.

Or

- (b) Write in detail about automation in meat processing plant.
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C-8452

Sub. Code

80123

B.Sc. DEGREE EXAMINATION, APRIL 2023

Second Semester

Poultry Science

INCUBATION AND HATCHERY MANAGEMENT

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Physiological zero
2. Fumigation
3. Chicks Pull out
4. Grading of chicks
5. Turning
6. Fertility
7. Total hatchability
8. Sweating
9. Egg tooth
10. Malposition

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write briefly about methods of incubation.
Or
(b) Explain briefly about principles of incubation.
12. (a) Write about the role of Setter during incubation.
Or
(b) Explain briefly about the role of hatcher during incubation
13. (a) Write briefly about Pedigree hatching.
Or
(b) Explain briefly about *In-ovo* technique
14. (a) What is the importance of turning of hatching eggs?
Or
(b) What is the significance of temperature during incubation?
15. (a) What is the reason for poor hatchability?
Or
(b) Explain briefly about the importance of post hatch break open study

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Describe in detail about layout, design and location of hatchery.
Or
(b) Write in detail about setter and hatchery operations.

17. (a) Write in detail about the physical factors affecting the incubating eggs.

Or

(b) Explain the Role of computers in hatchery operations.

18. (a) Write in details about biosecurity measures in to be adopted in hatchery

Or

(b) Describe in detail about hatchery waste management.

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Sub. Code

80124

B.Sc. DEGREE EXAMINATION, APRIL 2023

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. Essential amino acids
2. Calorie: Protein ratio
3. Metabolisable energy
4. Trace minerals
5. Critical vitamins
6. Tannin
7. Unidentified growth factor
8. Prebiotics
9. GMP
10. HACCP.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write briefly about Animal Protein sources.

Or

- (b) Explain briefly about unconventional feed stuff for poultry.

12. (a) Write briefly about sex separate feeding.

Or

- (b) Explain briefly about Nutritional deficiencies in chicken.

13. (a) Write briefly about performance enhancers in poultry.

Or

- (b) Explain about types of enzyme used in poultry.

14. (a) Write briefly about Hammer mill.

Or

- (b) Explain briefly about advantages of pelleting.

15. (a) Write briefly about Sampling techniques.

Or

- (b) Explain briefly about Chemical evaluation of feed ingredients.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Describe the digestive system of poultry with neat diagram.

Or

- (b) Describe the system of feeding to poultry.

17. (a) Describe the poultry pelleting technology.

Or

- (b) Write in detail about feeding of turkey.

18. (a) Describe the chemical methods to find out adulteration in feed ingredients.

Or

- (b) Describe the international regulations related to feed manufactures.

C-8454

Sub. Code

80132

B.Sc. DEGREE EXAMINATION, APRIL 2023

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. Auto sexing
2. Qualitative trait
3. Law of independent assortment
4. Heterozygous individual
5. Pedigree selection
6. Variability
7. Selection index
8. Phenotypic values
9. Sire and dam
10. Hatchability

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Describe origin and breed characters of poultry.

Or

- (b) Write short notes on chromosome number in different species.

12. (a) Write short notes on Mendelian inheritance.

Or

- (b) Write short notes on sex linked inheritance.

13. (a) Discuss about genetic basis of variability and heredity.

Or

- (b) Brief on progeny testing on method of breeding.

14. (a) Write short notes on IBP in method of selection.

Or

- (b) Differentiate the selection of egg and meat type lines.

15. (a) Brief on artificial insemination.

Or

- (b) Comment on common breeding program practiced in industry.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Describe the basic genetic and genetic classification of poultry breeding.

Or

- (b) Discuss the detail the qualitative traits of chromosomes in different species.

17. (a) Describe the detail the law of inheritance in poultry breeding.

Or

- (b) Discuss the various type of breeding in poultry.

18. (a) Discuss about any three type of phenotypic values in poultry breeding.

Or

- (b) Detail the conditions of breeding for high hatchability.

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Sub. Code

80142

B.Sc. DEGREE EXAMINATION, APRIL 2023.

Fourth Semester

Poultry Science

BROILER PRODUCTION

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Broiler
2. BCC
3. All in all out system
4. Brooding
5. Crop
6. Relative humidity
7. Automation
8. Horizontal Integration
9. Strain
10. FCR

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Preparation of broiler house to receive chicks.

Or

- (b) Role of NMPPB.

12. (a) Selection of site for broiler farm.

Or

- (b) Wet marketing.

13. (a) Feeding management.

Or

- (b) EEF

14. (a) Vaccination schedule for broilers.

Or

- (b) Lighting management in broilers.

15. (a) Body weight monitoring.

Or

- (b) Qualities of good litter materials.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write in detail on overview of broiler industry in India.

Or

- (b) Describe in detail on summer management of broilers.

17. (a) Describe in detail on steps in dressing of broilers.

Or

(b) Describe in detail on monitoring the performance of broilers.

18. (a) Describe in detail on customer relationship management.

Or

(b) Describe in detail on biosecurity measures followed in a broiler farm.

C-8456

Sub. Code

80143

B.Sc. DEGREE EXAMINATION, APRIL 2023.

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. Disease
2. Morbidity
3. Host
4. Doyle's form of RD
5. Etiology of IBD
6. Aflatoxin
7. Brooder pneumonia
8. Ascaridia galli
9. Scaly leg mite
10. Deworming

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write briefly about water sanitation in poultry farms.

Or

- (b) Explain briefly about clinical signs and gross lesions of Fowl pox.

12. (a) Write briefly about vaccination schedule in layers.

Or

- (b) Explain briefly about types of vaccine used in poultry.

13. (a) Explain briefly about hosts and transmission of fowl cholera.

Or

- (b) Write briefly about fly and rodent control in poultry farms.

14. (a) Explain briefly about medication through feed in poultry.

Or

- (b) Write briefly about the types of disinfectants.

15. (a) Write briefly about diagnosis and treatment of coccidiosis.

Or

- (b) Explain briefly about differential diagnosis between LL and MD.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write in detail on etiology, host, transmission, signs, morbidity, mortality, gross, HP lesions, diagnosis, treatment prevention and control of Ranikhet disease.

Or

- (b) Describe in detail on etiology, host, transmission, signs, morbidity, mortality, gross, HP lesions, diagnosis, treatment prevention and control of Salmonellosis.
17. (a) List out the ectoparasites affecting poultry and describe in detail on the mites and ticks.

Or

- (b) Write an essay on general farm hygiene.
18. (a) List out the metabolic diseases affecting poultry and explain in detail on Ascites.

Or

- (b) Write in detail on biosecurity measures followed in poultry farm.
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C-8459

Sub. Code

80155D

B.Sc. DEGREE EXAMINATION, APRIL 2023.

Fifth Semester

Poultry Science

LEGAL ASPECTS OF POULTRY BUSINESS

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Registration
2. Seller
3. Property
4. Clearance
5. Performance of the contract
6. Promoter
7. Taxation
8. Loans
9. Contract
10. Mandatory certificate

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain briefly about essentials of valid contract offer.

Or

- (b) Write briefly about Indian contract act 1872.

12. (a) What are Companies Act 2013?

Or

- (b) Write briefly about clearance from statutory bodies.

13. (a) What are the rights and duties of partnership deed?

Or

- (b) What are the provisions of company law for removal of Manager?

14. (a) Explain briefly about sales of goods act 1930.

Or

- (b) Write briefly about contract of sale.

15. (a) What are the laws relating to winding up companies?

Or

- (b) Explain briefly about nature and significance of contract

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Discuss in detail on the nature, significance and types of contract

Or

- (b) Write in detail on dissolution of a partnership.

17. (a) Write an essay on taxation to poultry enterprise farm.

Or

- (b) Discuss in detail on taxation to poultry processing plants.

18. (a) Write in detail on conditions and warranties to the sales.

Or

- (b) Write an essay on types of companies and procedure of formation of companies.
