

<b>C-1579</b>
---------------

<b>Sub. Code</b>
<b>80211/80311</b>

**DIPLOMA EXAMINATION, NOVEMBER 2019**

**First Semester**

**BASIC ANATOMY AND PHYSIOLOGY OF CHICKEN**

**(Common for Diploma (Broiler Breeder Production)/  
Diploma. (Commercial Broiler Production  
Management))**

**(2019 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. Semiplumes
2. Pea and Single combs
3. Bill and Beak
4. Snood and Caruncles
5. Water fowl
6. Rhode Island Red
7. Pneumatic bones
8. Gizzard
9. Cloaca
10. Adrenal gland

**Part B****(5 × 5 = 25)**Answer **all** questions.

11. (a) Feather tracts in poultry – explain with diagram.

Or

- (b) Fancy breeds of chicken.

12. (a) Inhalation and exhalation process in avian species.

Or

- (b) Structure of contour feather with diagram.

13. (a) Different white blood cells in avian species.

Or

- (b) Special features of avian skeletal system.

14. (a) Structure of male reproduction system with diagram.

Or

- (b) Formation of spermatozoa in chicken.

15. (a) Structure and function of caeca.

Or

- (b) Structure of egg with diagram.

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Give salient characters of Asiatic and Mediterranean classes of chicken. Write in detail about white leghorn breed.

Or

- (b) Give a detailed account on different Indian breeds of chicken.
17. (a) Explain the structure of avian respiratory system and air sacs.

Or

- (b) Elaborate structure and function of excretory system in birds.
18. (a) Explain the structure of female reproductive system with suitable diagram.

Or

- (b) Write about different lymphoid organs and their functions in chicken.
-

C-1580

Sub. Code

80212/80312

**DIPLOMA EXAMINATION, NOVEMBER 2019**

**First Semester**

**BREEDER HOUSING, EQUIPMENT AND  
ENVIRONMENT/BROILER HOUSING, EQUIPMENT  
AND ENVIRONMENT**

**(Common for Diploma (Broiler Breeder Production)/  
Diploma (CBPM)]**

**(2019 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. R-value.
2. Half-Monitor.
3. Reverse cages.
4. Fountain drinkers.
5. Automatic vaccinator.
6. Photo period.
7. Down time.
8. Black-out houses.
9. Hover.
10. De beaker.

**Part B**

(5 × 5 = 25)

Answer **all** questions

11. (a) Different types of roofs used in poultry housing.

Or

(b) Pen and run system of management.

12. (a) Tunnel ventilation.

Or

(b) Qualities of good litter materials.

13. (a) Advantages of cage system of management.

Or

(b) Nest boxes for breeder with diagram.

14. (a) Points to be considered in selection of site for a poultry farm.

Or

(b) Raised platform houses.

15. (a) Arrangement of brooder with diagram.

Or

(b) Equipments used in artificial insemination in chicken.

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the design of a poultry house with diagram.

Or

- (b) Give a detailed account on different feeders and waterers used in poultry farming with diagrams.

17. (a) Explain different types of cages of poultry with the help of diagrams.

Or

- (b) Write in detail different intensive systems of management.

18. (a) Give floor, watering and feeding space requirements for different systems of management. Explain furnished cages with space requirements.

Or

- (b) Elaborate the automation in egg and manure collection systems with their advantages and disadvantages. Give diagrams.
-

**C-1583**

**Sub. Code**

**80313**

**DIPLOMA EXAMINATION, NOVEMBER 2019**

**First Semester**

**Commercial Broiler Production Management**

**INCUBATION AND HATCHERY MANAGEMENT**

**(2019 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. Incubation.
2. Hatchery.
3. Purpose of egg turning.
4. Cheese cloth method.
5. Hatchability.
6. Physiological zero.
7. Setter temperature and RH.
8. Pull out.
9. Egg exploder.
10. Blood ring.

**Part B****(5 × 5 = 25)**Answer **all** questions

11. (a) Single vs multi-stage incubators.

Or

(b) Effect of variation in temperature and humidity of eggs.

12. (a) Pedigree hatching

Or

(b) In-Hatch vaccination.

13. (a) Grading of eggs.

Or

(b) Commonly used packaging materials for chicks.

14. (a) Formaldehyde fumigation.

Or

(b) Bacterial contamination in chicken eggs.

15. (a) Incubation methods.

Or

(b) In-hatch medications.



**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Discuss in detail the various factors responsible for physical requirements of incubation.

Or

- (b) Describe in detail the quality control measures adopted in commercial hatcheries.

17. (a) Explain in detail the various reasons for poor hatchability.

Or

- (b) Discuss in detail about the various causes of eggs failing to hatch with its remedial measures.

18. (a) Discuss in detail the biosecurity measures to be carried out in commercial hatcheries.

Or

- (b) Describe in detail the various methods adopted for efficient disposal of hatchery waste.
-

<b>C-1584</b>
---------------

<b>Sub. Code</b>
------------------

<b>80314</b>
--------------

**DIPLOMA EXAMINATION, NOVEMBER 2019**

**First Semester**

**Commercial Broiler Production Management**

**BROILER MANAGEMENT — I**

**(2019 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. Broiler.
2. BCC.
3. Commercial broiler strains.
4. FCR.
5. Integration.
6. Types of Poultry feed.
7. Meat type chicken breeds.
8. EEF.
9. Sanitizer.
10. Photoperiod.

**Part B****(5 × 5 = 25)**Answer **all** questions, choosing either (a) or (b).

11. (a) Crop score assessment.

Or

- (b) Crop Fill.

12. (a) Qualities of litter material.

Or

- (b) Wet litter problem.

13. (a) Body weight monitoring in commercial broilers.

Or

- (b) Factors influencing body weight in broilers.

14. (a) Mash Vs Pellet feed.

Or

- (b) Steps involved in Pellet feed preparation.

15. (a) Feeder maintenance during broiler finisher phase.

Or

- (b) Drinker maintenance during broiler starter chicks phase.

**Part C****(3 × 10 = 30)**Answer **all** questions.

16. (a) Explain in detail the reasons for rapid growth and development of poultry industry in India.

Or

- (b) Discuss in detail the overview of broiler industry in India.

17. (a) Discuss in detail the brooding house arrangements to be made for day-old broiler chicks.

Or

- (b) Describe in detail the different sources of brooding equipments commonly used in commercial broiler farms.

18. (a) Explain in detail about All-in-all-out and multiple batch system of rearing commercial broilers.

Or

- (b) Discuss in detail about merits and demerits of deep litter vs cage system of rearing commercial broilers.

---