

KAKATIYA UNIVERSITY
B.Sc. POULTRY SCIENCE SYLLABUS UNDER CBCS
(With effect from 2016-2017)
II - SEMESTER
Paper – II (Theory)
POULTRY NUTRITION AND PHYSIOLOGY

Max. Marks: 60

UNIT-I: DIGESTIVE PHYSIOLOGY

- 1.1 Biology of fowl, digestive physiology -digestion, absorption.
- 1.2 Utilization of feed nutrients carbohydrates, proteins, Fat vitamins and trace elements.
- 1.3 Factors affecting digestibility and feed efficiency.
- 1.4 Carbohydrate ,protein, fat, mineral metabolism .

UNIT-II: NUTRITIONAL REQUIREMENTS

- 2.1 Importance of nutrition in poultry production-classification of food stuffs and their categorization in to energy feeds, protein feeds, minerals and vitamins.
- 2.2 Feed additives. Agro -industrial by-products and non-conventional feeds.
- 2.3 Nutrient requirements of different types of poultry-chick grower, layer and broiler, ducks, turkeys and quails.
- 2.4 Selection of feed, and BIS feeding standards for poultry. various categories of poultry feed.

UNIT-III: FEEDING OF POULTRY

- 3.1 Feeding methods of poultry.
- 3.2 Feeding schedules for various types of poultry.
- 3.3 Common nutritional deficiencies in poultry rations.
- 3.4 Common toxic principles in poultry feeds and method of detoxification.

UNIT-IV: STORAGE OF FEED

- 4.1 Usage of non –conventional poultry feed ingredients.
- 4.2 Principles of storage of feeds and maintenance of stores.
- 4.3 Nutritional factors effecting fertility.
- 4.4 Role of hormones and effects of light on growth and reproduction.



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PRACTICALS

Mas. Marks: 40

1. Identification of various poultry ingredients and their classification
2. Familiarization with feed additives, agro-industrial by-products and micro nutrients.
3. Identification of common feed adulterants.
4. Sampling and labelling of poultry feeds.
5. Acquaintance with various laboratory equipment and apparatus.
6. Preparation of various laboratory reagents and standard solutions used in feed analysis
7. Determination of moisture/ dry matter.
8. Determination of proteins.
9. Determination of crude fibre.
10. Determination of ash.
11. Preparation of analytical report.
12. Mixing of chick starter, grower, layer and broiler ration.
13. Use of feed concentrates for preparation of various mashes.
14. Calculation of feed requirements of chicks, growers, layers and broilers according to age.
15. Calculation of feed efficiency for meat production.
16. Calculation of feed efficiency for meat production.
17. Calculation of feed requirements for production of one kg. egg mass and dozens of eggs.
18. Preparation of mineral mixture.
19. Physical evaluation of grains and other feed components.
20. Identification and application of insecticides, fumigants and rodenticides in feed go down.
21. Sketching of digestive tract of fowl, endocrine organs, respiratory organs, circulatory system, renal organs, nervous system.



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