KAKATIYA UNIVERSITY
B.Sc. POULTRY SCIENCE SYLLABUS UNDER CBCS
(With effect from 2016-2017)
I - SEMESTER
Paper – I (Theory)
INTRODUCTION TO POULTRY SCIENCE

Max. Marks: 60

UNIT-I: Indian Poultry Industry

1.1 Definition of Poultry, History of poultry market capitalization, size of the industry, total contribution to the Indian economy, sales employment opportunities.
1.2 Present status and future prospects.
1.3 Principles of domestication behavioural factors favouring domestication.
1.4 Adaptations of poultry in different regions like deserts and high altitudes.

UNIT-II: Scientific Poultry Keeping

2.1 Modern breeds of chicken-varieties used for modern Breeding.
2.2 Present day egg production lines.
2.3 Present day meat production lines.
2.4 The mini-Breeds dwarfism in mini-leg horns.

UNIT-III: Structure Of The Chicken

3.1 Surface of the chicken.
3.2 Skeleton and Muscles.
3.3 Respiratory, digestive, urinary, circulatory systems of the chicken.
3.4 Nervous system, hormone producing glands, reproductive system of chicken.

UNIT-IV: Formation of Egg and its Development

4.1 Ovary-ovulation, parts of oviduct.
4.2 Shape and size of the egg and composition of the egg.
4.3 Fertilization: - Pre-ovipositional embryonic development, Post ovipositional egg holding period.
4.4 Development of the extra embryonic membranes, daily changes during embryonic growth from 1 to 21 days.

Professor & Chairman
Board of Studies in Zoology
Department of Zoology
Kakatiya University
Warangal - 506009.

PRACTICALS

Max. Marks: 40

1. Study of external anatomy- parts of body
2. Study of characters of egg type breeds of fowl.
3. Study of characters of meat type breeds of fowl
4. Study of breeds of ducks, turkey and quail.
5. Study of commercial poultry stocks.
6. Sketching of important poultry pockets in India (showing breeding farms, hatcheries, etc. in the map of India).
7. Exercise on the inheritance of morphological traits.
8. Identification of sex, feather sexing and colour sexing method.
9. Vent sexing.
10. Identification of birds-wing bands (sketch of wing band), application of wing bands, wing badges and leg bands.
11. Drawing of egg production curves based on data.
12. Record keeping of egg weight at various ages.
13. Calculation of feed efficiency per Kg. in terms of eggs and feed requirements per dozen eggs.
14. Drawing of a sketch of various types of cross breeding and strain crossing.
15. Marking eggs for pedigree hatching and hatching of pedigree chicks.
16. Calculation of hatchability of fertile and total eggs set basis.
17. Culling non-layers.
18. Calculation of hen-housed and hen-day egg production.
19. Judging bird for egg production-comb size and colour, bones, distance body conformation and body capacity.
20. Filling pedigree records –sire family and dam family for hatching, egg production, body weight and egg weight.
21. Study and sketching of various types of Trap nests.
22. Trap nesting and study of defects in trap nests.
23. Identification of pedigree in cage birds.
24. Study of male and female reproductive organs.
25. Artificial insemination in fowl.
26.Preparation of male for semen collection –collecting funnels –training of males, preparation pfr A.I. Kit, semen evaluation.

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