

KAKATIYA UNIVERSITY
B.Sc. POULTRY SCIENCE SYLLABUS UNDER CBCS
(With effect from 2016-2017)
III - SEMESTER
Paper – III (Theory)
POULTRY HOUSING AND MANAGEMENT

Max. Marks: 60

UNIT-I: Poultry Housing

- 1.1 Importance and principles of poultry housing. Materials and method for poultry housing environment and poultry housing management. Housing for chicks, growers, layers and broilers.
- 1.2 Factors effecting heat loss and heat production in fowl. Methods of heat loss. Housing considerations in summer, winter and rainy season.
- 1.3 Methods of housing-Housing of chicks in floor and cages. Housing growers in cages and floor. Housing of layers on floor and cages. Slatted floor.
- 1.4 Floor space requirement for chicks, growers, layers, and broilers. Feeders and waterers space requirements for chicks, growers, layers, and broilers.

UNIT-II: Poultry Equipment

- 2.1 Equipment –brooder house equipment –floor brooders, battery brooder, chick guards, chick feeders, chick waterers.
- 2.2 Grower house equipment –grower feeders, grower waterers, grower cages.
- 2.3 Layer house equipment –layer feeders, layer waterer, nest box and grit box. Types of layer feeders, laying cages.
- 2.4 Other equipment –debeakers, balances, egg boxes and filler flats, catching crates, catching hooks, litter racker, pedigree boxes.

UNIT-III: Managements of Chicks, Growers, Layers and Management of Broilers

- 3.1. Management of chicks-chick feeding, chick watering, and debeaking. Temperature maintenance –infra red brooding, environmental problem in a poultry farm and its control, prophylactic vaccination.
- 3.2 Management of growers –grower feeding, watering and debeaking.
- 3.3 Layer management –layer feeding, watering on floor and in cages, medication, egg collection and lighting schedule.
- 3.4 Broiler management –separating sexes, lighting schedule, feeding, watering, prophylactic vaccination and medication of broilers.
- 3.5 Forced moulting and culling.

UNIT-IV: Hatchery Management

- 4.1 Litter management –material, special emphasis on adverse weather conditions, racking, mixing of lime, built up litter and disposal of litter.



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- 4.2 Moulting –age of moulting, process of moulting, forced moulting. Methods and precautions in forced moulting.
- 4.3 Stress management –identification of various agents causing stress.
- 4.4 Management problems –density of bird, watering and feeding space, rodent control, difficulties in poultry management.
- 4.5 Introduction to management of ducks, quails and turkeys –hatchery operations care during fumigation. Candling, setting and transferring of hatching eggs, cleaning of hatching eggs. Requirements of temperature, humidity and turning. Gaseous environment of incubator and corrective measures

PRACTICALS

Max. Marks: 40

1. Identification of poultry housing materials.
2. Designing and sketching of poultry house for chicks.
3. Designing and sketching of grower house on floor and in wiremesh cages.
4. Designing and sketching of layer house on floor and in cages.
5. Visit to a poultry farm.
6. Preparation of tables for space, feeder and waterer requirement of birds of various ages.
7. Drawing sketches of floor brooder, battery brooder, chick feeder, chick waterer and brooder guards.
8. Arranging waterers, feeders and chick guards in a brooder house.
9. Identification of equipment for infra-red brooding.
10. Recording of temperature.
11. Drawing sketch and handling of a grower feeder, waterer and wire floor battery cages.
12. Drawing a sketch and handling automatic water arrangement in cages.
13. Drawing a diagram and handling of nest box and grit box.
14. Debeaking of birds
15. Drawing a diagram of debeaked chick and debeaked adult bird.
16. Drawing a sketch and handling of catching crate, catching hooks, litter racker and pedigree boxes.
17. Identification of filler flats –paper pulp, plastic.
18. Drawing and handling of bamboo, wooden and metal transport crates.
19. Cooling poultry house in summer, through water spraying, side curtains, straw thatching, etc.
20. Identification of feather of fowl-primary, secondary and body feather. Sketching sequence of falling of feather in moulting.
21. Cleaning and fumigation of hatching eggs, setting, candling and transferring of eggs.
22. Distinguishing between fertile and infertile eggs.
23. Recording of temperature, humidity and turning in hatchery.
24. Drawing a chart for common defects in operation of hatcher and setter and their remedial measures.
25. Drawing a sketch of wing feather showing slow and rapid feathering.
26. Drawing a sketch of cloacal opening to differentiate between male and female protuberance.
27. Setting a chick sexing room, bulbs, reflector, chick boxes, etc.



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