

**KAKATIYA UNIVERSITY**  
**B.Sc. POULTRY SCIENCE SYLLABUS UNDER CBCS**  
(With effect from 2016-2017)  
**IV - SEMESTER**  
**Paper –IV (Theory)**  
**POULTRY DISEASES AND CONTROL**

**Max. Marks: 60**

**UNIT-I: HEALTH AND SANITATION**

- 1.1 Definition, symptoms and signs of diseases in poultry and their health.
- 1.2 Management of hygienic conditions- use of detergents in spraying and cleaning of sheds, cleaning through fumigation.
- 1.3. Importance of sanitation in hatchery building, hatchers and setters.
- 1.4 Role of intermediate hosts in spread of diseases. Pre-disposing factors for sickness-faulty feeding practices, poor ventilation, lack of cleanliness, Overcrowding, attendant, precautions to avoid infection.

**UNIT-II: Common Disease Of Poultry And Their Causative Agents-Symptoms And Treatment**

- 2.1 Viral diseases–Ranikhet diseases, fowl pox, EDS -76 (egg drop syndrome), infectious bursal diseases (Gumboro diseases) infectious bronchitis, infectious Laryngo Tranchitis, inclusion body hepatitis, avian encephalomyelitis, Reoviral arthritis, marek's disease, avian lymphoid leukosis.
- 2.2 Bacterial diseases–coli bacillosis, infectious coryza, salmonellosis, pasteuril lososs pirochetosis, mycoplasmosis, tuberculosis.
- 2.3 Fungal diseases–aspergillosis and aflatoxicosis.
- 2.4 Parasitic diseases–ectoparasites–line, mites, ticks and fleas: Endoparasites –round worm tape worm and protozoan diseases –coccidiosis.

**UNIT-III: Miscellaneous Diseases**

- 3.1 Protozoan diseases-coccidiasis.
- 3.2 Staphyococcosis, cannibalism, pilling of birfs, egg bound condition, proapa of the uterus, cage layer fatigue.
- 3.3 Sodium chloride poisoning. Stunting syndrome, tumors. Diseases of duck, quinea fowl, turkeys and quail.
- 3.4 Nutritional deficiencies –polyneuritis, curried toe paralysis, encephalomalacia, rickets, perosiisnad other nutritional diseases.

**UNIT-IV: Drugs and Antibiotics**

- 4.1 How drugs are administered-through feed, water, injections.
- 4.2 Classification of drugs- sulfonamides, nitrofurans, coccidial, pasturarella and anthelmintics
- 4.3 Drug treatment-potency and length of drug treatment.
- 4.4 Antibiotics- bacitracin, chlotetra cycline etc.FDA approval guide lines for all antibiotics.



**Professor & Chairman**  
Board of Studies in Zoology  
Department of Zoology  
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## PRACTICALS

Max. Marks: 40

1. Identification of healthy and sick birds.
2. Recording of temperature.
3. Visual appraisal of comb, buccalcavity, gait and behaviour.
4. Demonstration of terms: bacteria, virus, protozoa, fungus, sulphonamides, antibiotics, Antibodies, antigens, active immunity, passive immunity, acute and chronic diseases, pathogens, vaccines, virulence, morbidity, mortality.
5. Visit to poultry farm showing equipment, position of foot bath. Sterilization and sterilization methods.
6. Preparation of chart for common viral diseases, showing the Causative agents, symptoms, prophylactic vaccinations and treatment.
7. Preparation of chart for common bacterial and fungal diseases, showing their causative agents. Symptoms, vaccination and treatment.
8. Preparation of figure of life cycle of coccidial agents. Symptoms and treatment.
9. Control of Ecto-parasites –dipping methods, spraying with insecticides
10. Identification of common insecticides used in poultry and their use.
11. Deworming of poultry birds.
12. Preparation of table common nutritional diseases-their causes, symptoms and treatment.



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