DISCIPLINE SPECIFIC CORE COURSES BZO:C702 APPLIED ZOOLOGY (Credits: Theory-4, Practicals-2)

SEMESTER - VII

Unit 1

Introduction to Host-parasite Relationship and Epidemiology of Diseases: Host, Definitive host, Intermediate host, Parasitism, Symbiosis, Commensalism, Reservoir, Zoonosis, Transmission, Prevention and control of diseases: Tuberculosis, swine flu, typhoid, Rickettsiae and Spirochaetes, Brief account of Rickettsia prowazekii, Borrelia recurrentis and Treponema pallidum Unit 2

Parasitic Protozoa and Helminthes:

Life history and pathogenicity of Entamoeba histolytica, Plasmodium vivax and Trypanosoma gambiense, Life history and pathogenicity of Schistosoma haematobium, Ancylostoma duodenale and, Wuchereria bancrofti

Unit 3

Insects of Economic and Medical Importance:

Biology, Control and damage caused by Helicoverpa armigera, Pyrilla perpusilla and Papilio demoleus, Callosobruchus chinensis, Sitophilus oryzae and Tribolium castaneum; Safe storage of stored grains, Life cycle, medical importance and control of Pediculus humanus corporis, Anopheles, Culex, Aedes, Xenopsylla cheopis, Phlebotomus argentipes Unit 4

. Animal Husbandry and Poultry Farming: Preservation and artificial insemination in cattle; Induction of early puberty and synchronization of estrus in cattle, Principles of poultry breeding, Management of breeding stock and -broilers, Processing and, preservation of eggs

Unit 5

Fish Technology:

Genetic improvements in aquaculture industry; Induced breeding and transportation of fish Seed.

Lectures: 60