

UNIT – I

Definition of wildlife, concept of wildlife: Role of wildlife in nature, preservation of breeding stock, artificial stocking, habitat improvement, gene farming, Values of Wildlife, Field observations: Study of signs and symptoms– foot prints, locomotory patterns in tetrapods. Human-wildlife conflict: reasons and remedial measures.

UNIT – II

Types of movement: Tiger pug marks, foot prints of other animals, feeding sign, animal dropping, wildlife census methods (waterhole survey, point count and line transect methods, pug marks count method, King's census method), components of wildlife habitat (cover, food, water and space), common flora and fauna of India specially Himalayan region.

UNIT – III

Sociobiology of wild animals– Territorial behaviour, migratory behavior. Breeding behaviour, animal grouping. Animal communication: Visual, acoustic and olfactory and their socio-biological importance, animal learning and memory.

UNIT – IV

Indian wildlife (Introduction, distribution of wildlife in ecological subdivision of India), IUCN categories, Protected area networks: National parks, Wildlife Sanctuaries, Biosphere reserves and Zoos in India, gene pool. habit, habitat and breeding biology of few mammals (*viz.* Elephant, Tiger) and birds (*viz.* Weaver bird, Oriental Magpie Robin).

UNIT – V

Reasons for wildlife depletion (Habitat fragmentation, Habitat destruction, commercial wildlife exploitation, overgrazing, impacts of developmental projects etc.), measurement for wildlife conservation (Policies and programmes), special projects for endangered species (Project tiger, Gir lion Sanctuary Project, Crocodile breeding project, Hangul project), man and wild life conflicts. International trade of wildlife, animal cruelty: causes and prevention, Wildlife-tourism management.

NOTE: The question paper shall consist of two sections (A & B). Section A shall contain ten short answer type questions of six marks each and student has to attempt any five questions in about 150 words each. Section B shall consist eight long answer type questions of ten marks each and student shall be required to attempt any four questions in detail. Questions shall be uniformly distributed from the entire syllabus. The previous year paper can be used as a guideline and the following syllabus should be strictly followed while setting the question paper.