Unit-1
Introduction:
1. Ethology as a branch of biology.
2. Animal psychology, classification of behavioral patterns, analysis of behavior (ethogram)
3. Reflexes and complex behaviour.
5. Evolution and ultimate causation: Inheritance behaviour and relationships.

Unit-2
1. Neural and hormonal control of behaviour.
2. Genetic and environmental components in the development of behaviour.

Unit-3
1. Ecological aspects of behaviour: Habitat selection, food selection, optimal foraging theory, anti-predator defenses, aggression, homing territoriality, dispersal, host parasite relations.
2. Biological rhythms: Circadian and circannual rhythms, orientation & navigation, migration of fishes, turtles and birds.
3. Learning and memory: Conditioning, habituation, insight learning, association learning and reasoning.
Unit-4
2. Social behavior, aggregations, schooling in fishes, flocking in birds, herding in mammals, group selection, kin selection, altruism, reciprocal altruism, inclusive fitness, social organization in insects and primates.

Unit-5
Human Ethology
1. Ethological concept and human behaviour.
2. Concept of Sign Stimuli
3. Concept of imprinting
4. Kinship & Human social system
5. Human being & territorial behaviour.
6. Human aggressive behavior and human social behavior.

Suggested Reading: