

ZOOLOGY PAPER -II

TIME ALLOWED: 03 HOURS

MAX.MARKS: 100

Note: Attempt at least ONE question from each Part.

PART -I

- Q. No.1: a-** Give detailed account of NUCLEAR ENVELOPE. 10
b- Discuss TRANSLATION in detail. 10

PART -II

- Q. No.2: a-** What is HOMEOSTASIS? Explain Negative Feedback Control Mechanism. 10
b- Discuss briefly ENDOCRINE HORMONES. 10

- Q. No.3: a-** Discuss different RESPIRATORY PIGMENTS. How they transport O₂ and CO₂. 10
b- Write short notes on: 10 (2x5)
i. Synapse
ii. Neurotransmitters

PART -III

- Q. No.4: a-** Explain CHROMOSOMAL ABBERATIONS in detail. 10
b- What is LINKAGE? Explain Sex Linked Inheritance with example. 10
- Q. No.5: a-** Describe Mendel's Law of INDEPENDENT ASSORTMENT in detail. 10
b- What are MULTIPLE ALLELS? Discuss with reference to ABO blood groups inheritance. 10

PART -IV

- Q. No.6: a-** Explain Darwin's theory of Natural Selection. What is NEO-DARWINISM? 10
b- Differentiate between: 10 (2x5)
i. Homology and Analogy
ii. Phylogeny and Ontogeny

PART -V

- Q. No.7: a-** Define BIOGEOCHEMICAL Cycle. Explain Nitrogen Cycle in detail. 10
b- What are the sources of WATER POLLUTION? 10