

SYLLABUS

I. REPRODUCTION

1. Human Sperm
2. Human ovum
3. Paramecium – conjugation

II. GENETICS

1. ABO blood grouping
2. Analysing Mendelian traits in a given population
3. tRNA - Structure
4. Homologous organs
5. Analogous organs
6. Normal Human karyotype
7. Autosomal Anomaly – Patau's Syndrome
8. Sex Chromosomal Anomaly – Turner's Syndrome
9. Autosomal Disease –Sickle cell anemia
10. X – Linked Disease - Haemophilia

III. HEALTH & DISEASES, IMMUNOLOGY AND MICROBES IN HUMAN WELFARE

1. Fermentation by yeast
2. *Entamoeba histolytica*
3. Thymus – T.S
4. Lymph node – T.S

IV. BIOTECHNOLOGY

1. Animal cloning - Dolly (Sheep)
2. Insulin production - Flowchart

V. ECOLOGY

1. Marking of Wildlife Sanctuary and National parks in India map
2. Determination of colour and pH in the given water samples
3. Mutualism - Sea anemone on hermit crab
4. Commensalism - Sucker fish (*Echeneis*) on shark