

जंतु विज्ञान-प्रथम वर्ष
कोशिका विज्ञान एवं अकशेरुकी

(प्रथम - प्रश्न पत्र)

UNIT – 1

- Chapter 1 - The Cell (Prokaryotic & Eukaryotic)
- Chapter 2 - Methods in Cell Biology (Microscopy Light & Electron)
- Chapter 3 - Organisation of cell extranuclear and nuclear (plasma membrane, mitochondria, chromosomes, ER, Golgi bodies, Ribosomes)
- Chapter 4 - Cell division (Mitosis & Meiosis)
- Chapter 5 - An elementary idea of cell transformation & cancer immunity (elementary idea)

UNIT-2

- Chapter 6 - General characteristics & classification of invertebrates upto orders with examples.
- Chapter 7 - Protozoa- type study Paramecium, protozoa & disease
- Chapter 8 - Porifera- type study Sycon
- Chapter 9 - Coelenterata type study Obelia

UNIT-3

- Chapter 10 - Helminthes- type study Fasciola
- Chapter 11 - Annelida – type study Pheretima
- Chapter 12 - Arthropoda- type study Palaemon

UNIT-4

Chapter 13 - Mollusca- type study Pila

Chapter 14 - Echinodermata- Asterias (Starfish) External features and water vascular system.

Chapter 15 - Protochordata- type study Balanoglossus

कशेरुकी एवं भ्रूणीय विज्ञान

(द्वितीय - प्रश्न पत्र)

Unit - 1

- Chapter 1 - Origin and Classification of Chordates.
Chapter 2 - Protochordates- type study Amphioxus
Chapter 3 - A Comparative account of Petromyzon & Myxine
Chapter 4 - Fishes- skin and scales, migration in fishes, parental care

Unit - 2

- Chapter 5 - Amphibia- parental care, neoteny
Chapter 6 - Reptilia- poisonous & non poisonous snakes, poisonous snakes, poison apparatus, snake venom
Chapter 7 - Aves- flight adaption in birds
Chapter 8 - Discuss- birds are glorified reptiles
Chapter 9 - Mammals- comparative account of prototheria, metatheria & eutheria and affinities.

Unit - 3

- Chapter 10 - Gametogenesis, fertilization & parthenogenesis
Chapter 11 - Development of frog upto formation of three layers

Unit - 4

- Chapter 12 - Development of chick upto formation of three germ layer, extra embryonic members
Chapter 13 - Placenta in mammals
Chapter 14 - Embryonic induction organizers & differentiation.

बी.एस.सी – I

जन्तुविज्ञान प्रायोगिक

1. परिचय: प्रयोगशाला के लिए आवश्यक सूक्ष्मदर्शी तथा सामान्य निर्देश
(Introduction: Necessary Microscope for Laboratory General Instruction)
2. विच्छेदन (Dissection)
 - (i) केचुआ (Earthworm)
 - (ii) पाइला (Pila)
 - (iii) प्रान (Prawn)
3. संग्रहालय निर्देशों का अध्ययन (Study of Museum Specimens)
4. उत्तकीय स्लाइडो का अध्ययन (Study of Histological Slides)
5. मुर्गे के भ्रूण स्लाइड (Chick Embryological Slides)
6. कोशिका विज्ञान प्रयोग (Cytology experiments)
7. तुलनात्मक अस्थिविज्ञान: मेढक एवं खरगोश
(Comparative Osteology: Study of Frog and Rabbit)