



BIOLOGY HSSC-II

Punjab Text Book Board
Old / Revised Syllabus

22

Time allowed: 2:35 Hours

Total Marks Sections B and C: 68

NOTE: Answer any fourteen parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION – B (Marks 42)

Q. 2 Answer any FOURTEEN parts. The answer to each part should not exceed 3 to 4 lines. (14 x 3 = 42)

- (i) How does excretion take place in Earthworm?
- (ii) What is cartilage? Name its main types.
- (iii) Write a note on different modes of locomotion in mammals.
- (iv) Write three commercial applications of Gibberellins.
- (v) Define the following terms.
 - a. Biorhythms
 - b. Reflex action
 - c. Saltatory impulse
- (vi) What is menstrual cycle?
- (vii) What is meant by Open Growth?
- (viii) Write the key events in animal's development.
- (ix) Draw the structural formulae of uracil and thymine.
- (x) What is "Nuclein"?
- (xi) Write a note on Turner's Syndrome.
- (xii) State the Mendel's Law of segregation.
- (xiii) Differentiate between complete and incomplete dominance.
- (xiv) What are the possible ways to find the gene of interest?
- (xv) What is vent hypothesis?
- (xvi) How does autecology differ from synecology?
- (xvii) What is predation?
- (xviii) What is human impact on Tundra Ecosystem?
- (xix) "Trees are called Environmental Buffers". Why?

SECTION – C (Marks 26)

Note: Attempt any TWO questions. All questions carry equal marks.

(2 x 13 = 26)

- Q. 3**
 - a. Describe the major homeostatic functions of the liver. (07)
 - b. Write the characteristics and types of sclerenchyma cells. (06)
- Q. 4**
 - a. Explain the role of nucleus in development with reference to Acetabularia. (08)
 - b. Describe the five main differences between Nervous and chemical coordination. (05)
- Q. 5**
 - a. What is succession? Describe different stage of succession in xeric conditions? (07)
 - b. Define Mitosis. Write its importance. (06)