

Biology

Note: Time allowed for Section-B and Section-C is 2 Hours and 45 minutes.

SECTION-B

Q2: Answer any **EIGHT** parts. Each part carries **FOUR** marks.

- i) Write **FOUR** main causes of lungs cancer.
- ii) How halophytes reduce loss of water from their bodies and absorb salt from surrounding environment?
- iii) Compare the function of glomerulus and renal tubule.
- iv) Differentiate between electrical coordination and hormonal coordination with special reference to their receptors.
- v) What happens if thyroxin is produced more than the required amount?
- vi) Briefly explain the factors which determine the flexibility of a cartilage?
- vii) Briefly discuss the future of the following structure after fertilization.
(a) Zygote (b) Triploid Nucleus
- viii) Highlight the role of mRNA and tRNA in protein synthesis.
- ix) Briefly explain water as an important abiotic factor.
- x) Differentiate between alcoholic fermentation and lactic acid fermentation in terms of start and end products.
- xi) Briefly explain narcotics as addictive drug in terms of:
(a) Acting on body parts (b) Effects on body

SECTION-C Marks: 16

Note: Attempt any **THREE** questions. All questions carry equal marks.

- Q3:** (a) Briefly explain the processes which are involved in the excretion of extra water from plant bodies.
(b) List any **THREE** emergency aid to a patient who suffered from a seizure.
- Q4:** (a) Differentiate between the joint of vertebral column and Hip joint.
(b) Write name of any three components of male reproductive system of rabbit.
- Q5:** (a) How does chromatin material play an important role in the composition of chromosome?
(b) Discuss the role of air and water pollutants in causing land pollution.
- Q6:** (a) Discuss the objectives of genetic engineering in terms of Genetically Modified Plants.
(b) Write behavioral symptoms of drug addiction with the help of examples.