

|       |                                 |  |      |
|-------|---------------------------------|--|------|
| Q-I   | 1                               | Give a detailed account of compound fixatives.   | (14) |
|       | 2                               | Explain in detail the various types of dyes used in histology. Add a note on mordant.  |      |
|       | OR                              |  |      |
|       | 1                               | Give a brief account of connective tissues.  |      |
|       | 2                               | Explain the general characteristics and classification of epithelial tissues.  |      |
| Q-II  | 1                               | Explain: Liver Diseases  | (14) |
|       | 2                               | Write note on: CO poisoning and Emphysema  |      |
|       | OR                              |  |      |
|       | 1                               | Explain: Connective tissue diseases  |      |
|       | 2                               | Write note on: Disorders of Urination  |      |
| Q-III | 1                               | What is infertility? Write down the general risk factors and medical conditions affecting both male and female infertility.                                  | (14) |
|       | 2                               | What is skin cancer? Write down different types of skin cancers in detail.   |      |
|       | OR                              |  |      |
|       | 1                               | What is female infertility? Write down different types of cancer including their risk factors, symptoms, and treatment affecting female reproductive system. |      |
|       | 2                               | What is bone disorder? Write down the environmental, genetic and metabolic risk factors of bone disorders in detail.   |      |
| Q-IV  | 1                               | Explain briefly: Fluorescence Resonance Energy Transfer  | (14) |
|       | 2                               | What are ZFPs? Explain their applications.   |      |
|       | OR                              |  |      |
|       | 1                               | Give a note on stop codon readthrough.   |      |
|       | 2                               | Discuss therapeutic applications of RNA technology.  |      |
| Q-V   | Answer any SEVEN out of TWELVE. |  |      |
|       | 1                               | What is apocrine secretion?  | (14) |
|       | 2                               | What are Paneth cells?   | 02   |
|       | 3                               | What are the factors affecting tissue fixation?  | 02   |
|       | 4                               | What are the disorders of digestive tract?   | 02   |
|       | 5                               | Define : Hypoxia   | 02   |
|       | 6                               | Give names of pancreatic diseases.   | 02   |
|       | 7                               | Which are the blood tests used for the detection of rheumatoid arthritis?  | 02   |
|       | 8                               | What is Psoriasis?   | 02   |
|       | 9                               | What is endometrial cancer? Which are the types of endometrial cancer?   | 02   |
|       | 10                              | Define: eugenics   | 02   |
|       | 11                              | What is ERT?   | 02   |
|       | 12                              | What is Ayurgenomics?  | 02   |