

PR XII (01) 18
BIOLOGY (New)
Inter Part-II
(Fresh/Reappear)

Note: Time allowed for Section – B and Section – C is 2 Hours and 40 minutes.

Section – B

Marks: 40

Q-II Answer any TEN parts. Each part carries FOUR marks.

1. What do you know about DNA markers? Mention its types and uses.
2. Define hormone. What is its chemical nature? Give Examples.
3. What are the signs and symptoms of aging?
4. Differentiate between polygenes and multiple alleles with examples.
5. Briefly describe the mechanism of controlling gene expression.
6. Differentiate between acclimatization and acclimation.
7. Write note on the medical uses of nicotine.
8. Draw only diagram showing different events in the process of oogenesis.
9. Differentiate between cramps and tetany.
10. What do you know about ecological pyramids? Give their types and importance.
11. Differentiate between Kinesis and Taxis.
12. What is stroke? Give symptoms and treatment of stroke.
13. Write note on the properties of respiratory surfaces.

Section – C

Marks: 27

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

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| Q-III | (a) | Write a note on the post transcriptional modification of mRNA. | 4 |
| | (b) | Briefly discuss the process of speciation. | 5 |
| Q-IV | (a) | What do you know about Bombay Phenotype? | 5 |
| | (b) | What are the different causes of female infertility? | 4 |
| Q-V | | Describe, stepwise the Sanger's method of DNA sequencing. Also draw labeled diagram of the process. | 9 |
| Q-VI | (a) | Discuss the anatomy and role of human pancreas. | 4 |
| | (b) | Briefly describe the repairing process of broken bone. | 5 |