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DCBN601

Reg. No.

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VI Semester B.Sc. Degree Examination, July/August - 2024

BOTANY

**Cell and Molecular Biology
(NEP-2021 Scheme Freshers)**

Paper : 7



Time : 2½ Hours

Maximum Marks :60

Instructions to Candidates:

- 1) Answer all Parts.
- 2) Draw diagrams wherever necessary.

PART - A

I. Define/Explain any FIVE of the following in Two or Three sentences. (5×2=10)

1. Differentiate between euchromatin and heterochromatin.
2. What is synapsis?
3. Define transcription.
4. What is plasmodesmata?
5. Mention the nitrogenous bases of RNA.
6. What is a recon?

PART - B

II. Write Critical notes on any FOUR of the following. (4×5=20)

7. Endoplasmic reticulum.
8. Structure of eukaryotic chromosome.
9. Salient features of genetic code.
10. DNA methylation
11. Structure and function of chloroplast.

[P.T.O.]



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PART-C

III. Give a comprehensive account on any THREE of the following. (3×10=30)

12. Mitotic cell division.

13. DNA replication

14. Lac operon.

15. Explain.

a) Structure and function of plasma membrane.

b) Define PCD.

(8+2=10)
