25081

M.Sc. DEGREE EXAMINATION, APRIL 2018.

Biotechnology

SECOND SEMESTER

Paper I — MOLECULAR BIOLOGY

Time : Three hours | Maximum : 75 marks

(No additional sheet will be supplied)

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PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. SSB.
2. Polymerase I.
3. Polyadenylation.
4. Intron.
5. Puromycin.
6. Peptidyltransferase.
7. Inducer.
8. Transcriptional enhancers.

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PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. What are the experiments evidences which prove DNA as genetic material?

Or

10. Explain the semi conservative replication of DNA.

11. Explain the splicing mechanisms of eukaryotic primary transcript.

Or

12. Give an account on eukaryotic and prokaryotic RNA polymerases.

13. Give an account on structure of tRNA and its role in protein synthesis.

Or

14. Explain the mechanism of protein synthesis in eukaryotes.

15. Explain the organization and regulation of Trpopeon.

Or

16. Give an account on environmental factors that affect gene expression.

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