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MODEL QUESTION PAPER

IV SEMESTER B.Tech DEGREE EXAMINATION

BRANCH: BIOTECHNOLOGY & BIOCHEMICAL ENGINEERING

13.403: MOLECULAR BIOLOGY & GENETICS (B)

Time: 3 Hours

Marks: 100

PART A

(Answer all questions, each question carries 2 marks)

1. What is the role of Sugar pucker in DNA structure?
2. Mention any four main differences between prokaryotic and eukaryotic Translation.
3. Explain Wobble hypothesis. How it contributes for the degeneracy of genetic code?
4. Distinguish between 'α' and 'θ' model of DNA Replication.
5. What do you mean by 'Semi conservative mode of replication'?
6. What are Zinc Finger and Leucine Zipper?
7. Name any four proteins involved in the DNA replication in eukaryotes.
8. Name any Inhibitor of translation and its mode of action.
9. How Arabinose Operon is different from other operones?
10. Illustrate sex linked inheritance with a suitable example.

PART B

(Answer any ONE question from each module, carries 20 marks.)

MODULE I

11. a) Write notes on Structural Polymorphism in DNA. How will you convert B-DNA into other DNA forms. (12 Marks)
b) Briefly describe the process of DNA Replication in *E.coli*. (8 Marks)
12. a) Elucidate different Post transcriptional modifications. (10 Marks)
b) Illustrate detailed structure of DNA with suitable diagram. (10 Marks)

Genetics Question Paper

Y Pai



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