NOVEMBER 2017 **1709214/PBYM33A**

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 1 = 10 marks)

Answer any TEN questions.

1. What is allelle?
2. What is co-dominance?
3. Define conjugation.
4. What is telomerase?
5. What is linker DNA?
6. Define transposons.
7. Define mutation.
8. Give the function of splicesomes.
9. What is palindrome?
10. Define genetic code.
11. How amino acids are activated?
12. What are histones?

SECTION B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Briefly explain transduction process.

14. Give an account on the organisation of chromosomes.

15. State the molecular mechanisms of mutation.

16. Write a note on RNA polymerase.

17. Explain Wobble hypothesis.

18. Describe briefly eukaryotic repair system.

19. Give an account on ubiquitin pathway.

SECTION C — (4 × 10 = 40 marks)

Answer any FOUR questions.

20. Describe gene mapping in haploids and diploids.

21. Explain the mechanism of prokaryotic replication.

22. Describe Holliday model in detail.

23. Describe post transcriptional processing of mRNA.

24. Explain the transcription process in prokaryotes.

25. Describe the various post translational modification of proteins.

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