Reg. No. :	K22U 1568
Name :	
IV Semester B.Sc. Degree CBCSS (OBE) Regula Improvement Examination, April 20 (2019 Admission Onwards) GENERAL AWARENESS COURSE IN MICRO 4A13MCB: Molecular Biology	022
Time: 3 Hours	<b>N</b> 4
	Max. Marks : 40
PART – A	
Answer all questions. Each question carries 1 mark.	
1. Nucleotide	(1×6=6)
2. Origin of replication	
3. RNA as primer for DNA replication	
4. Reverse transcriptase	
5. Polysomes	
6. Beta galactosidase.	
PART – B	

Answer any 6 questions. Each question carries 2 marks.

(2×6=12)

- 7. Nucleosome
- 8. Structure of DNA
- 9. Semi-conservative mode of DNA replication
- 10. Site specific recombination
- 11. RNA processing

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- 12. Wobble hypothesis
- 13. Attenuation in tryptophan operon
- 14. Gene regulation by recombination.

## PART - C

Answer any 4 questions. Each question carries 3 marks.

 $(3 \times 4 = 12)$ 

- 15. Enzymes and accessory proteins involved in DNA replication.
- 16. Holiday Junction model for DNA recombination.
- 17. Rolling circle mode of replication and theta mode of replication.
- 18. Different types of RNA.
- 19. Post translational modifications.
- 20. Features of Genetic Code.

## PART - D

Answer any 2 questions. Each question carries 5 marks.

 $(5 \times 2 = 10)$ 

- 21. Experimental evidence for DNA as the genetic material.
- 22. Transcription in prokaryotes and eukaryotes.
- 23. Translation in prokaryotes and eukaryotes.
- 24. Explain operon concept and regulation of gene expressions in prokaryotes.