KSCJ/BS/ZOC 5.11/NOV-22

2022

B.A./B.Sc. Fifth Semester CORE – 11 ZOOLOGY Course Code: ZOC 5.11 (Molecular Biology)

Total Mark: 70 Time: 3 hours Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1.	Describe the mechanism of DNA replication in prokaryote.		14
2.	Write notes on the following:		7×2=14
	(a) Ridiractional replication	(b) Telemore replication	

(a) Bidirectional replication (b) Telomere replication

UNIT-II

3.	Give an account on various types of eukaryotic transcription factors.	14
4.	Explain the prokaryotic and eukaryotic RNA polymerase. 8+6	=14

UNIT-III

14

6. Write the difference between prokaryotic and eukaryotic translation. 14

UNIT-IV

- 7. Explain in detail the structural components of globin mRNA. 14
- 8. Discuss the processing of tRNA. Add a note on introns and exons.

8+6=14

UNIT-V

9.	Give a comparative account on inducible and repressible operon.	14
10	. Explain how transcription is regulated in eukaryote.	14