

General instruction(s):

- Answer All Questions
- Draw necessary diagrams wherever necessary

Q. No	Question	Module	Marks	CO	BL
1.	"DNA is the genetic material of bacteria" – prove this statement with suitable experimental evidence.	1	10	CO 1	BL 4
2.	a. Write a note on Chargaff's base pairing rule.	1	5	CO 2	BL 2
	b. Tabulate the differences between DNA and RNA.	1	5		
3.	What is TUS protein? How it helps to terminate DNA replication in <i>E. coli</i> (prokaryote). Discuss in detail.	2	10	CO 3	BL 4
4.	What is the name of origin of replication of yeast? Discuss its structure and functions.	2	10	CO 3	BL 2
5.	Explain the role of various proteins and enzymes that participate in DNA replication.	2	10	CO 3	BL 2