

	15. Draw a figure of bacteriophage T4.			
Q.2	Short answers. (3M x 5Q = 15M) 1. What were the pea plant traits that Mendel studies for his experiments? 2. State the difference between incomplete dominance and co-dominance with appropriate examples. 3. How will you compare tumor and normal genomes by hybridization technique? 4. What is the significance of banding techniques? Explain 3p22.1 chromosome region with diagrammatic representation. 5. How vibrio are different from spirilla? Explain differential staining based on the presence of peptidoglycan in bacteria. 6. Differentiate between old and new genome sequencing technique.	15	CO1, CO2, CO3, CO4, CO5, CO6	BT1, BT3, BT5 BT6
Q.3	Long answers. (5M x 2Q = 10M) 1. Describe Mendelian laws with their respective examples. 2. Design a detailed experiment to study gene X, Y, and Z on chromosome number 6th in human cell line. 3. Explain- How will you demonstrate an ordered gene transfer using three different strains.	10	CO1, CO2, CO3, CO4, CO5, CO6	BT1, BT3, BT4, BT5, BT6

*****End of Question Paper*****