

Q-4	Attempt all questions	(14)
A	Explain types of restriction enzymes in detail.	7
B	Describe DNA and RNA markers.	7
Q-5	Attempt all questions	(14)
A	Explain modification enzymes and their role in gene manipulation.	7
B	Explain any one plasmid in detail with diagram.	7
Q-6	Attempt all questions	(14)
A	Explain “Blue-white colony selection” method.	7
B	Explain Polymerase chain reaction in detail.	7
Q-7	Attempt all questions	(14)
A	Explain AFLP in detail with process diagram.	7
B	Explain any one nucleic acid sequencing method in detail with diagram.	7
Q-8	Attempt all questions	(14)
A	Explain process of production Insulin from <i>E.Coli</i> .	7
B	Write a note on gene therapy with one example.	7

