(Old Course)

	By Papers	Total marks 75
Duration: 3 Hours	By Research	Total marks 100
Note: 1) All questions are compulsory.		
2) Figures to the right indicate full marks assigned	to the question.	
Q I) Discuss the following (any three):		15/21
 a) The genetics involved in the life cycle of T4 phage b) Mechanisms of excision repair and SOS repair. c) Specialized transduction d) The Ac-Ds controlling elements in maize. 	е.	
Q II) Write an essay on (any one):		15 / 16
a) Lambda phage repression during lysogeny.b) Human genome project.		
QIII) Write short notes on (any three):		15 / 21
 a) Retroposons b) Bioinformatics in gene finding. c) Applications of Polymerase chain reaction process d) Oncogenic viruses. 	ses	
Q IV) Answer the following (any three):		15 / 21
 a) Give an account on - Tumor suppressor genes. b) Discuss - the applications of phylogenetics. c) What are transposons? How are composite transposons transposons. d) Schematically explain - the apoptotic pathway. 	osons different fr	om non- composite
QV) Give an account of (any three):		15 / 21
 a) Functional genomics. b) Tools in Bioinformatics. c) Discuss how normal cells are transformed into turn d) Diagrammatically explain – life cycle of retrovirus 	nor cells. ses.	
