Cluster Innov	ation Centre, University of De	elhi, Delhi-110007
Examination Name of the Course	 End Semester Examination – May 2022 B.Tech. (Information Technology and Mathematical Innovations) 	
Name of the Paper Paper Code	: Flow of Information in Liv : 32864408	ing Systems
Semester	: IV : 2 Hours+ 30 minutes	
Duration		
Maximum Marks Instructions:	: 40	
	contains six questions, out of tion carries equal marks.	which any lour are to be
	ions? How are they developed? Dis	scuss about the various types of
mutations giving examples.		[10]
Ques. 2. Discuss about	replication or transcription in de	tail by giving a neatly labelled
diagram. Also mention th	ne roles of all the enzymes used durin	ig the whole process. [10]
Ques. 3. What is equival	ence rule? Discuss about the main	features of double helical model
of DNA. What are the di	fferences between DNA and RNA?	
[10]		
Ques. 4. Write short note	es on <u>any two</u> of the following: b). Polymerase Chain reaction	[10]
(a). Genetic Code	b). Polymerase Chain reaction	(c). Gel Electrophoresis
Ories 5 What is DNA co	ondensation? Discuss in detail with a	neatly labelled diagram. What
is the need of DNA cond	lenstation?	[10]
is the need of DIVA cone	onstation .	[rol

Ques. 6. What do you understand by DNA damage? How is it caused? Discuss about any

one DNA repair mechanism.

[10]