Total No	. of Questions :5]			
	. of Questions .5]	SEAT No.:		
P691	[5217] - 201	[Total No. of Pages :2		
S.Y.B.Sc.				
BIOTECHNOLOGY				
Bb-221: Moleculer Biology				
	(2013 Pattern) (Semester -	II)		
Time: 3	Hours]	[Max. Marks :80		
Instructi	ons to the candidates:			
1)	All questions are compulsory.			
2)	Draw neat labelled diagrams wherever necessary.			
3)	Figures to the right indicate full marks.			
Q1) Answer in 2-3 sentences.		[10×2=20]		
a)	What is B. Form DNA?			
b)	Write the findings of Hershy - chase experim	ent.		
c)	Define: Gene Cluster.			
d)	What is Kinetochore?			
e)	What is enchromatin?			
f)	Role of Initiator Proteins.			
g)	What is origin of replication in Prokaryotes?			
h)	What are exons?			
i)	Role of DNA pol II.			
j)	Define: SOS - response.			
Q2) W1	rite short notes on (any three):	[3×5=15]		

Processing of m - RNA in eukaryotes.

P.T.O.

a)

b)

Lac operon.

	c)	Non - histone proteins.		
	d)	Glycosylation of proteins.		
Q3)	Ans	swer the following (any three).	3×5=15]	
	a)	Explain the process of protein import to mitochondria		
	b)	Write a note on termination of DNA replication in prokaryotes.		
	c)	What are single peptide? Give an account.		
	d)	Discuss the bacterial genome organisation.		
Q4)	Ans	swer any one. [13	×15=15]	
	a)	Give a detail account of protein synthesis in prokaryotes		
OR				
	b)	Describe in detail transcription process in prokaryotes.		
Q5)	a)	Write a note various ways of regulation of transcription preukaryotes.	rocess in [8]	
	b)	What are histones? Give an account of histone modifications.	[7]	
OR				
	a)	Describe the efforts made by Dr. HarGovind Khurana and his coin order to decipher the universal genetic code.	olleagues [8]	
	b)	What is end replication? Describe mechanism of end replication faby Telomerase.	acilitated [7]	

6 6 6

[5217] -201