Total No	o. of Questions : 4]	SEAT No. :
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	S.Y. B.Sc.	
BIOTECHNOLOGY - I (Vocational) VOC-Biotech-211 : cell & Molecular Biology and Microbial Genetics		
Time: 2 Hours]		[Max. Marks : 40
	ions to the candidates:	
1) 2)	All questions are compulsory. All questions carry equal marks.	
<i>3)</i>	Neat diagrams must be drawn wherever necessary.	
4)	Figures to the right indicate full marks.	
Q1) A1	nswer each of the following in 1-2 lines:	[10]
a)	Define: Endocrine signaling.	
b)	What is active transport?	
c)	State the role of gap junction.	
d)	What is fibronection protein?	
e)	Define nucleotide excision repair.	
f)	What is transduction?	
g)	How F-strain is formed during conjugation:	?
h)	What are nucleosomes.	
i)	Comment on transformation.	
j)	Enlist two examples of cell signalling.	
<i>Q2</i>) W	rite short notes on any two of the following:	[10]
a)	Griffith experiment.	. ,
b)	· .	

P.T.O.

c)

Subcellular fractionation of cells.

Q3) Attempt any two of the following:

[10]

- Describe insertional sequences with suitable example. a)
- Explain structure and function of nucleus. b)
- Compare gene structure in prokaryotes and eukaryotes. c)

Q4) Explain the process of transcription in prokaryotes in detail.

[10]

OR

Explain the process of replication in prokaryotes in detail.





