## M. SC. BIOINFORMATICS SEM.-I (C.B.C.S.) (2013 COURSE) / ADVANCED DIPLOMA IN BIOINFORMATICS SEM.-I (C.B.C.S.) (2013 COURSE) : WINTER - 2017

SUBJECT: BASIC BIOSCIENCES

Day Date		Friday 27/10/2017  W-2017-1006  Time: 10.00 AM Max. Marks: 60	TO 01.00 PM
N.B.:	1)	attempt <b>ANY TWO</b> questions from each section.  Answers to both the sections should be written in <b>SEPARATE</b>	
	3) 4)		
0.1		SECTION – I	(40)
Q.1	a)	Explain why? Mitochondria are known as power-house of a cell.	[10]
	<b>b</b> )		
	<b>c</b> )		
	d) e)		
	e)	Eukaryotic microsis are mostry polycistrome.	
Q.2	a)	Draw neat labeled diagrams of the following: <b>(ANY TWO)</b> : Prokaryotic and Eukaryotic cells <b>b)</b> Cytoskeleton types	(10) c) tRNA
Q.3		Write short notes on <b>ANY TWO</b> of the following:	[10]
_	a)		,
	<b>b</b> )	•	
	c)	Prokaryotic cell structure	
Q.4		Answer <b>ANY TWO</b> of the following:	[10]
_	a)	Explain in brief the discoveries related to hereditary material.	,
	<b>b</b> )		
	c)	What are interrupted, uninterrupted and overlapping genes? E functions.	xplain their
SECTION – II			
Q.5		Define:	[10]
	a)	•	-
	b)		
	c) d)	Euchromatin Telomere	
	e)	Genome	
0.6	ŕ	W. S. J. C.	***
Q.6	a)	Write short notes on <b>ANY TWO</b> of the following: Extra chromosomal inheritance	[10]
	a) b)		
	c)	Histone proteins	
<b>Q.</b> 7		Answer <b>ANY TWO</b> in brief:	[10]
<b>Q.</b> 7	a)	Explain Holiday model of recombination with diagram.	[10]
	b)		
	c)	State the molecular mechanisms of mutations with example.	
Q.8		Explain in detail prokaryotic transcription.  OR	[10]
		Explain in detail Eukaryotic transcription.	