Total No. of Questions: 8]			SEAT No.:	
P2083			[Total	No. of Pages : 2
		[4929]-2	2	
		M.Sc. (Semest	er - II)	
		ZOOLOG	Ϋ́	
		ZY-202: a) Molecu	lar Biology	
		b) Cell Bi	ology	
		(2008 Patte	ern)	
Time: 3 Hours]			[M]	lax. Marks: 80
Instr	uctio	ns to the candidates:		
	1)	Answer any two questions from each		
	2)	Answers to the two sections should be		swer books.
	<i>3) 4</i>)	Figures to the right indicate full mar Neat diagrams must be drawn where		
	• /		·	
		SECTION N. I		
		ZY-202: a) Molecul	ar Biology	
<i>Q1</i>)	a)	Discuss the features of DNA struct	ture proposed by Wats	son and Crick. [10]
	b)	What is Central dogma of molecula	r biology? Explain.	[10]
Q 2)			l. Give the role	
	of o	different proteins involved in it.		[20]
Q 3)	a)	Differentiate between the RNA Polymerses II	•	
	L)	mechanism of RNA Polymerase II		
	b)	What is translocation? Describe it in	a detall.	[10]

Q4) Write short notes on:

[20]

- a) DNA Polymerase III
- b) Post-transcriptional Modification
- c) Transposons
- d) Initiation factors involved in protein synthesis.

SECTION - II

ZY-202: b) Cell Biology

- Q5) Explain the chemistry and molecular structure of plasma membrane. Add a note on active transport. [20]
- Q6) Describe the role of cytoskeleton in cell architecture and cell motility. [20]
- Q7) a) Explain polymorphism in lysosomes. [10]
 - b) Explain functions of peroxisomes. [10]
- **Q8**) Write short notes on:

[20]

- a) Protein import in chloroplasts
- b) Significance of prophase I of Meiosis I
- c) Glyoxysomes
- d) Nucleo cytoplasmic interaction

