Re	eg. No Name	P3623	
	M.SC DEGREE END SEMESTER EXAMINATION OCTOBER 2	2016	
	SEMESTER – 3: ZOOLOGY		
COURSE: P3ZOOT10 – CELL AND MOLECULAR BIOLOGY			
	Common for Regular (2015 Admission) & Supplementary / Improvement (2014 Admission)		
Time: Three Hours		Max. Marks: 75	
	Part A (Answer any Eight Questions. Each carries 2 marks)		
1.	Comment on peroxisomes?		
	What is sodium –potassium pump?		
	What are cadherins? Write notes on molecular motors?		
	What are hemidesmosomes?		
	Write notes on oncogenes.		
	What are the functions of Mitochondria What are intermediate filaments?		
	Briefly describe Genetic code .		
	Briefly explain Apoptosis.		
	. What is attenuation?		
12.	. What is tight junction?	$(2 \times 8 = 16)$	
	Part B (Answer any Seven Questions. Each carries 5 marks)		
13.	. Describe the new strategies for combating cancer.		
14.			
15.	. Elaborate JAK-STAT pathway.		
	Describe the gap junction?		
	Comment on the properties of cancer cells?		
	Briefly explain the structure and functions of Golgi apparatus?Distinguish between mitosis and meiosis .		
20.	-		
	Explain RTK?		
	. What is catabolite repression?	$(5 \times 7 = 35)$	
	Part C		
	(Answer anyTwo question. Each carries 12 marks)		
23.	. Write an essay on the structure of the plasma membrane.		
24.			
25.	. Write an essay on transcription in eukaryotes.		

 $(12 \times 2 = 24)$

26. Give an account on different types of membrane transport.