<b>Total No</b>	. of Questions	:	6]	
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SEAT No.:			
[Total	No. of Pages	:	2

P2835

[5029]-102 M.Sc-I ZOOLOGY

## ZY 102(T): Cell Biology

(2013 Pattern)(Semester-I)(3 Credits)					
Time :2½ Instructi 1) 2) 3) 4)	AHours] ons to the candidates: Attempt any three questions from Q.No.1 to Q.No.5. Question No.6 is Compulsory. Neat diagrams must be drawn wherever necessary. Figures to the right indicate full marks.	[Max. Marks: 38			
<b>Q1)</b> a)	Describe functions of Rough Endoplasmic reticulum.	[4]			
b)	Lysosomes are suicide bags in cell. Explain	[4]			
c)	Explain glycocalyx	[2]			
<b>Q2)</b> a)	Describe fluid mosaic model of plasma membrane	[5]			
b)	Explain cell adhesion molecules with their significance	[3]			
c)	What are plasmo desmata.	[2]			
<b>Q3)</b> a)	Explain the mechanism of synaptic tranomission.	[4]			
b)	Give the organic compounds of cytoplasmic matrix	[3]			
c)	Describe $\beta$ oxidation of fatty acids.	[3]			
<b>Q4)</b> a)	Explain the different phases of cell cycle.	[5]			
b)	Explain Nucleo-cyto plasmic interactions.	[5]			
<b>Q5</b> ) a)	Explain glyoxylate cycle & give its significance.	[5]			
b)	Describe composition & functions of microtubules	[5]			

## **Q6)** Write short note on.(Any two):

[8]

- a) Intermediate filaments.
- b) Sketch & label ultrastructure of nucleus
- c) Protein import in mitochondria.
- d) Genetic system of chloroplast.

