647510

## Msc1MicC0110

Seat No :\_\_\_\_\_

## M.Sc. (Micro) Semester - 1 (CBCS) Examination Oct/Nov. -2019 - [OLD COURSE] CELL BIOLOGY (CORE)

Fime: 2:30 Hours Mark		ks: 70
	ctions:	
	questions are compulsory.	
2. Fig	rures to the right indicate marks.	
Q.1	Answer the following (any seven)	14
1.	What are 'cardiolipin' in Mitochondria?	
2.	Explain the function of microtubules.	
3.	What are porins?	
4.	State the types of Endoplasmic reticulum? Explain the difference between them	١.
5.	What are proto-oncogenes?	
6.	What is exocytosis?	
7.	Define the term diffusion.	
8.	What do you mean by 'Blebbing'? Where do they occur.	
9.	What are secondary messengers?	
10.	Write briefly the G1 and S mechanism in cell cycle	
Q.2	Answer the following (any two)	14
1.	Write a note on special type of chromosomes	
2.	Elaborate the ultrastructure of nucleus and explain nuclear complex	
3.	Explain in detail Cyclines and cyclin dependent Kinase	
Q.3	Answer the following	
1.	Describe the functions and structure of Lysosomes	05
2.	Explain the organelles: Glyoxisomes and Peroxisome	05
3.	Write a note on biogenesis of chloroplast	04
	OR	
<b>Q.3</b>	Answer the following	14
1.	Describe the mechanism of GERL system	
2.	Explain the ultrastructure of Mitochondria	
Q.4	Answer the following	
<b>A.</b>	Attempt any two	10
1.	Explain the ultrastructure and functions of microfilaments	
2.	Describe – Calcium dependent homophilic and non-homophilic cell adhesion	
3.	What do you mean by Intracellular junctions? Explain its functions	
B.	Attempt any one	04
1.	What are uniports and symports?	
2.	Explain the functions of IF and associated proteins	
Q.5	Answer the following (any two)	14
1.	Describe the phenomenon of Endocytosis and Exocytosis	
2.	Write a note on cell biology approach of cancer	
3.	What is 'Apoptosis'? Explain mechanism and its significance.	
4.	Discuss the mechanism of 'AIDS' in cell biology	

\*\*\*\*\*\*\*\*\*