of Applied " Inst Research (20516)B. Sc. (Micro.)-II Year .3494 B. Sc. (Micro.) Examination, May 2016 CELL BIOLOGY (B-201) Time: Three Hows] [Maximum Marks: 40 Note: Attempt any five questions. All questions carry equal marks. Draw neat and well labelled diagrams wherever required. Discuss cell as a basic unit of living system. Comment upon various levels of organization. Give a detailed ultrastructure of any four of the following: (i) Golgi bodies (ii) Endoplasmic reticulum

- (iii) Ribosomes
- (iv) Cytoskeletal
- (v) Mitochondria
- (vi) Chloroplast.
- 4. Who gave Fluid Mosaic Model? Comment upon different models of cell membrane structure.
- 5. Describe the mechanism of transport across cell membrane.
- Write down the main features of prokaryotic cell-wall.

 Differentiate prokaryotic cell wall from the cell wall of eukaryotic microbes.
 - 7. Describe the mechanism of Osmotic protection in prokaryotes.
 - 8. Write short notes on the following:
 - (i) Capsule in Bacteria
 - (ii) Classes of Pilli.

(20518)

Roll No.

B. Sc. (Micro.)-II Year

3494

B. Sc. (Micro.) Examination, May 2018

CELL BIOLOGY

(B-201)

Draw is celled diagrams of he follow

Time: Three Hours]

[Maximum Marks: 40

(b) Chiproplant

Note: Answer any Five questions. All questions carry equal marks. Draw neat and well labelled diagrams wherever required.

- Describe the ultrastructure of Mitochondria and its functions.

 8
- 2. Write short notes on the following: $4\times2=8$
 - (a) Slime layer and capsule
 - (b) Microtubules and microfilaments.

3.	Write a detailed account on Endoplasmic reticulum.8		
4.	Writ	e short notes on the following:	2×4=8
	(a)	Cilia	
21	(b)	Sc. (Micro.) Examination	
	(c)	Nuclear pore	
	(d)	Pilli. YDOJOIE AJEO	
^		(8-201)	
ß.	Drav	2×4=8	
Ob sole	(a)	Nucleus	
1	(b)	Chloroplast	
y equal	(c)	Prokaryotic cell	
	(d)	Flagella of Gram positive bacteria.	
		bounger	
6/-	Diff	erentiate between the following:	4×2=8
	(a)	Active and passive transport	
	(b)	Cell wall of Gram positive and Gram	negative
		bacteria.	
1			
7/	Writ	te short notes on the following:	4×2=8
	(a) Fluid mosaic model of plasma membrane		
	(b)	Lysosomes.	

8.	Writ	te an essay on Golgi apparatus.	8
9.	Writ	te notes on the following: 4×2	=8
	(a)	Functions of cell wall	
	(b)	Functions of plasma membrane.	
10.	(a)	Explain the various levels of organization vexamples.	vith 4
	(b)	Explain the structure of nuclear membrane.	4