## 

## **GI-034020**

Seat No. \_\_\_\_\_

## B. Sc. (Sem. IV) Examination

March / April - 2019

Biochemistry: BSCC407A (C-1: Cell Biology)

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Time	: 3	Hours ] [ Total Marks : 7	0			
1	(a)	Describe in detail structural organization of prokaryotic and eukaryotic cells.	7			
		OR				
	(a)	Explain: Evolution of eukaryotic cells from prokaryotes.	7			
	(b)	Write similarities and difference between Plant and Animal cells.	7			
		OR				
	(b)	Write general features, biochemical composition and functions of cell membrane.				
2	(a)	Write short note on cilia and flagella.	7			
		OR				
	(a)	Explain: Centrioles and Basal bodies.				
	(b)	Write structure, biochemical composition and functions of microtubules.	7			
		OR				
	(b)	Write short note on : Microfilaments.				
3	(a)	Write short note on:				
		(a) Nucleus	7			
		OR				
		(a) Mitochondria				
		(b) Plastid	7			
		OR (b) Lysosomes				
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- (a) Mitosis OR
- (a) Meiosis 7
- (b) Apoptosis OR
- (b) Stem cells 7
- 5 Write answer in short : (one mark each) 1×14
  - (1) What is cell junctions?
  - (2) Write function of protein present in cell membrane.
  - (3) Explain: Cell membrane is selective permeable.
  - (4) What is biochemical composition of cell wall?
  - (5) What is intermediate filaments?
  - (6) Write function of intermediate filaments.
  - (7) What do you mean by cytoskeleton?
  - (8) Give reason: Nucleus is headquarter of cell.
  - (9) What is nucleolus? Write its function.
  - (10) What is currency of our body? Where it is synthesis?
  - (11) Give reason: Ribosome is the protein factory.
  - (12) Write function of SER and RER.
  - (13) Write different phases of cell cycle.
  - (14) Write difference btween somatic and germline cells.

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