

PAQ-003-1132001 Seat No. _____

M. Sc. (Biotechnology) (Sem. II) (CBCS) (W.E.F. 2016) Examination

August - 2020

BT-206: Molecular Cell Biology (New Course)

Faculty Code: 003

Subject Code: 1132001

Time : $2\frac{1}{2}$ Hours] [Total Marks: 70

Instruction: All questions are compulsory. Support your answers with suitable illustrations where required.

1 Answer Any **Seven**: (2 Marks each) 14

- (1) What is Mitosis?
- (2)Differentiate cell biology and molecular cell biology.
- What do you understand by cell cycling?
- What is the corelation of G-Protein and signal (4) transduction?
- Comment on the Necrosis.
- (6) What is apoptosis?
- What is the most salient difference between prokaryotes and eukaryotes?
- (8) What are cytoskeletons?
- (9) What is IVF?
- (10) Enlist various proteins necessary in fertilization.
- 2 Write detailed comments on (Answer Any Two)

14

- (7 marks each)
- (b) G-Protein and its function

(a) Mitotic cell division

Post-Fertilization events

3	Write comments: (7 marks each)		14
	(a)	Meiosis and its regulation	
	(b)	Apoptosis	
		OR	
3	Comment on: (7 marks each)		14
	(a)	Developmental Biology	
	(b)	Microtubules in cell division	
1	Con	nment on : (7 marks each)	14
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	(a)	·	
	(b)	Role of protein kinase in cell cycling	
5	Write detailed comments on : (Any Two) (7 marks each)		14
	(a)	Early embryonic developments	
	(b)	Recent developpements in cancer diagnosis and	
		treatment	
	(c)	Regulation of the Oncogenes	
	(d)	Cell motility and its significance	