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## **AA-331**

## M. Sc. EXAMINATION, Dec. 2018

(First Semester)

(Re-appear Only)

**BIOTECHNOLOGY** 

BT-501-MS

Cell And Molecular Biology

Time: 3 Hours [Maximum Marks: 100]

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

**Note**: Attempt any *Five* questions. All questions carry equal marks.

(a) Describe the changes/modification of proteins takes place in golgi body with suitable diagrams.

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P.T.O.

· · · · · · · · · · · · · · · · · · ·	oes reassociation kinetics helps in anding complexicity of genome. 10 s different types of DNA trase and their functions in detail.
(a) How transportation of Protein in and out (b) Discuss	erase and their functions in detail.
of Nucleus takes place ?  10  (b) How protein synthesis takes place in	
•	translational change in a protein
Explain the process of cell-cycle regulation in with suitable	e diagram. 20
details. How cyclin molecule plays a role  8. Explain the	following: 5×4=20
during the process? 20 (a) Arb O <sub>1</sub>	peron
Explain the following briefly: $5\times4=20$ (b) Promot	er
	e Position
(b) Anaphase (d) RBS.	
(c) G-Protein Signaling	
(d) Symport and Antiport.	
(a) Discuss the repair mechanism that acts on thymine dimer and mismatch in a genome.  10	
(b) Explain negative and positive super	
coiling in details. 10	

2.

3.

4.

**5.** 

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