



# ADITYA DEGREE COLLEGES

\* ANDHRA PRADESH \*

PRE FINAL - EXAMINATIONS

III B.Sc VI SEMESTER

ORGANIZATION OF CELL STRUCTURE Max. Marks : 75 M

Date: 24.03.2020

Time: 3 Hours

## SECTION-A

I. Answer any FIVE of the following questions:

5 x 5 = 25 M

1. Cell Theory
2. Fluid Mosaic Model
3. GPCR
4. Ribosomes
5. Photosynthesis
6. Extracellular Matrix
7. Cell Cycle
8. Chromosomes

## SECTION-B

II. Answer the following questions:

5 x 10 = 50 M

9. a) Compare between Prokaryotic cell and Eukaryotic cell.

(Or)

- b) Discuss various Transport functions of Plasma Membrane.

10. a) Explain different Types of Cell Signalling

(Or)

- b) Explain the role of CAMP & Calcium as Second Messengers

11. a) Explain about structure and functions of Mitochondria

(Or)

- b) What is the role of Golgi Complex in cell.

12. a) Explain various types of cytoskeletal elements

(Or)

- b) Write about structure and functions of Nucleus.

13. a) What are different Apoptotic Mechanisms.

(Or)

- b) What are the various stages of Meiosis.