

Roll No.

91048

B. Sc. Bio-Technology 1st Semester

w. e. f. 2012-13

Examination – November, 2019

CELL BIOLOGY

Paper : BT- 103

Time : Three Hours] [Maximum Marks : 40

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

Note : Attempt *five* questions in all, selecting at least *one* question from each Unit. Question No. 1 is *compulsory*.

1. Write short note on the following : 2 × 5 = 10
- (a) Structure of Animal Cell
 - (b) Structure of microtubule
 - (c) Functions of chloroplast
 - (d) Passive transport
 - (e) Cell adhesion

P. T. O.

UNIT – I

- 2. Give a detailed account fluid mosaic model. 7 ¹/₂
- 3. Explain the membrane as a dynamic entity. 7 ¹/₂

UNIT – II

- 4. Explain the structure and functions of microtubule. 7 ¹/₂
- 5. What is the function of Golgi body into a cell ?
Explain its structure and Biogenesis. 7 ¹/₂

UNIT – III

- 6. Explain the structure and functions of Mitochondria. 7 ¹/₂
- 7. Explain the structure and functions of Lysosomes. 7 ¹/₂

UNIT – IV

- 8. Explain the agents promoting carcinogenesis. 7 ¹/₂
- 9. Explain the molecular basis of cancer. 7 ¹/₂