Roll No.

(12/19-II)

5165

B. Sc. EXAMINATION

(First Semester)

BOTANY

Second Paper

Cell Biology

Time: Three Hours Maximum Marks: 40

Note: Q. No. 1 is compulsory; each part of it is of 1 mark. Attempt any Four questions selecting 2 questions from each Unit. Support your answers with well labelled diagrams wherever necessary.

- 1. Answer the following in one word or one sentence only:
 - (a) Name the protein factories of a cell.
- (b) Draw diagram of a cell in Anaphase-I.

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What is submetacentric Chromosome? (c) Define Trisomy. (d) What are allopolyploids? (e) What do you mean by Middle lamella? (f) Expand NOR. (g) Define homozygous deficiency. (h) Explain the fluid mosaic model. Give various 5+3functions of a plasma membrane. 3. Write short notes on the following: 4 Chloroplast (a) Lysosomes. (b) Discuss ultra structure of Power house of a 4. cell. Give its function and state why it is called 8 semiautonomous organelle? Write explanatory note on the structure of ER. 5. Discuss its types and functions.

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Unit II

6.	Write short notes on the following:		
	(a)	Chiasmata	3
	(b)	Non-disjunction	3
	(c)	Cytokinesis.	2
7.	Discuss the ultra structure and functions of a typical eukaryotic chromosome.		
8.		it is translocation? Explain its type logical effects and significance.	es,
9.		and significance.	its 8