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(Pages : 2)

Name.....

Reg. No.....

**FIFTH SEMESTER U.G. DEGREE EXAMINATION, NOVEMBER 2021**

(CBCSS—UG)

Botany

BOT 5B 09—CELL BIOLOGY AND BIOCHEMISTRY

(2019 Admissions)

Two Hours

Maximum : 60 Marks

**Section A***Answer at least eight questions.**Each question carries 3 marks.**All questions can be attended.**Overall Ceiling 24.*

1. Write a note on Nuclear pore complex.
2. What is lamp brush chromosome ?  
What is Nucleolus ?  
Describe Chloroplast.  
Write a note on Golgi complex.
3. Differentiate Haploidy and Polyploidy.
7. What is Co-enzyme ?
8. Write a note on triacyl glycerols.
9. What is zwitter ions ?
10. What is a macromolecule ?
11. Write a note on enzyme regulation.
12. What is peptide bond ?

(8 × 3 = 24 marks)

Turn over

0377

**Section B**

*Answer at least five questions.  
Each question carries 5 marks.  
All questions can be attended.  
Overall Ceiling 25.*

13. Explain organization of interphase Nucleus.
14. Write an account on Cell cycle with special mention on Meiosis.
15. Write an account on architecture of cells-Prokaryotic and Eukaryotic.
16. Write an account on Cytoskeleton-Cytosol and Vacuole.
17. Explain structure and functions of nucleotides.
18. Write an account on enzyme action.
19. Write an account on Amino acids.

$(5 \times 5 = 25)$

**Section C**

*Answer any one question.  
The question carries 11 marks.*

20. Write an account on various cell organelles in Eukaryotic cell. Explain its structure and function.
21. Write an account on structure and biological function of protein.

$(1 \times 11 = 11)$