Reg	No:
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First Semester FYUGP Botany Examination NOVEMBER 2024 (2024 Admission onwards) KU1DSCBOT101 (CELL: STRUCTURE AND REPRODUCTION)

(DATE OF EXAM: 2-12-2024 - KUIDSCBOT101/KU1DSCPLS101)

Time: 90 min Maximum Marl	ks: 50
Part A (Answer any 6 questions. Each carries 2 marks)	
1. Write a short note on the cell theory?	2
2. How does cell membrane maintains its fluidity?	2
3. Describe the importance of mitochondria in cellular respiration.	2
4. What is F0 - F1 particle?	2
 Explain the function of ribosomes in protein synthesis. 	2
Define glyoxysomes and mention their role in plant cells.	2
7. What is the significance of the G1 phase in the cell cycle?	2
8. Explain the difference between gametic and zygotic meiosis.	2
Part B (Answer any 4 questions. Each carries 6 marks)	
 The discovery of cells influenced further studies in genetics and molecular Comment on the statement. 	biology.
 B5. Investigate the structure of interphase nucleus and analyse the characteristic during M phase of cell cycle 	anges in 6
 Draw a neat labelled comparative diagram illustrating the structure of chlo and mitochondria. 	oroplasts 6
12. Give the comparative account on the structures and roles of microbodies.	6
13. Create a diagram illustrating the stages of mitosis.	6
14. Sketch a diagram to compare the stages of mitosis and meiosis.	6
Part C (Answer any 1 question(s). Each carries 14 marks)	
 (a) Discuss the concept of the cell as the fundamental unit of structure a tion in living organisms. 	
(b) Explain the historical progress of cell biology, cell theory by writing major discoveries.	down the 7
16. Describe the ultrastructure of the interphase nucleus, with the help og diag	gram.Add