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M.Sc. II Semester Degree Examination, September/October - 2022 BOTANY

DSC-6-21 BOT 2C5L : Cell Biology

Time : 3 Hours Maximum Marks : 70		
Instructions : (i) Answer any 5 questions. (ii) Question no. 1 is compulsory.		
1.	(a) Explain the nucleosome solenoid model of Eukaryotic chromosomes.(b) Write a note on Chromatin material.	10 4
2.	Explain structural chromosomal abnormalities and discuss the significance of each type of abnormalities.	14
3.	(a) Write a note on karyotyping and its significance.(b) Enumerate the importance of in-situ hybridization techniques.	7 7
4.	Define cytoskeleton and discuss its types with structures.	14
5.	Define cell cycle with its various phases and explain checkpoints and their regulation.	14
6.	What are cell adhesion molecules ? Discuss the significance of each types of cell adhesion molecules.	14
7.	(a) Give reasons for the origin and formation of breaks, gaps and ring chromosomes.	10
	(b) Write a short note on apoptosis.	4
8.	Discuss the structure and function of lysosomes, vacuoles and peroxisomes.	14

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