21BOT2C6L

No. of Printed Pages: 1



Sl. No.

M.Sc. II Semester Degree Examination, Sept./Oct. - 2024 BOTANY

DSC - 6 : Cell Biology

(NEP)

Time	Time: 3 Hours Maximum Marks:			
Note	::	(i) (ii)	Answer any five of the following questions. Question No. 1 is Compulsory .	
1.	(a) (b)		Gerentiate euchromatin and heterochromatin material. Couss dosage compensation and X-chromosome inactivation.	8 6
2.	Write a short note on: (a) Non-disjunction and anaphase lag of chromosomes (b) Sister chromatic exchanges and its significance			6 8
3.	Explain in detail about the cytogenetic mapping.			14
4.	Describe the ultrastructure and functions of microtubules and microfilaments.			14
5.	Describe the cell cycle regulating genes.			14
6.	Write a short note on : (a) In-sites hybridization of chromosome mapping (b) Autophagy			6 8
7.	Writ (a) (b)			6 8
8.	Give (a) (b)	Tot	rief account on : ipotency of stem cells lherins, selections and adhesins	8 6

