BS/2110

C5- GENETICS (BHB12)

5491/NH

Attempt two question from the each Section A and B and the section C is compulsory

Time 3 hr	'S	MM:	74	
		Section A		
1.	Define ce diagram	cell cycle. Explain various stages of meiosis with well-labeled 11		
2.			11	
3.	draw a well labeled diagram		11	
4.	What are transposable elements? Discuss about transposons and retrotansposon in detail		11	
		Section B		
5.	How can mutations be induced in bacterial cells? Describe in detail the		11	
	molecular mechanism underlying mutagenesis.			
6.		Discuss about various abnormalities in chromosome structure with suitable example		
7.	answer w	Is cytoplasmic inheritance really non-Mendelian? Substantiate your answer with suitable examples		
8.		/hat are various abnormalities due to sex chromosomes. Write their 11 atures also		
		Section C		
0			30	
9.	i.	Pseudo allele	30	
	ii.	Mitosis		
	iii.	Chromatin		
	iv.	Satellite DNA		
	V.	Giant chromosome		
	vi.	Introns		
	vii.	Epistasis		
	viii.	Criss-cross inheritance		
	ix.	Sex influenced inheritance		
	X.	Point and gross mutation		
	xi.	Ames test		
	xii.	Physical and Chemical mutagens		
	xiii.	Barr bodies		
	xiv.	Genetic drift		
		Natural coloction		