CSM : 22

BOTANY PAPER - II

Time Allowed : 3 hours

Full Marks: 100

Marks for each question is indicated against it. Attempt <u>any 5 (five)</u> questions taking not more than 3 (three) questions from each Part.

PART - A

1.		t is chromosomal aberration? Describe various types of chromosomal structur ant cell.	al variations (4+16=20)
2.	Answer the following:		(10×2=20)
	(a)	Role of ribosome in initiation, elongation and termination of protein synthes	is.
	(b)	Discuss One-gene, one-enzyme concept.	
3.	Write	e short notes on any two of the following:	(10×2=20)
	(a)	Bioindicators	
	(b)	Environment (Protection) Act 1986	
	(c)	Social forestry	
4.	Discuss the following: (5×4=20)		(5×4=20)
	(a)	Significance of Ozone layer	
	(b)	Plant indicators	

- (c) Endemism
- (d) Characteristics of plants of Mangrove vegetation

PART - B

5.	Write short notes on any two of the following:	(2×10=20)
	(a) Methods of gene transfer in plants	
	(b) Transgenic Crops	
	(c) DNA fingerprinting	
6.	Explain the following statistical terms:	(4×5=20)
	(a) Standard Deviation	
	(b) Degrees of freedom	
	(c) Null hypothesis	
	(d) Coefficient of variation	
7.	Write short notes on any two of the following:	(2×10=20)
	(a) Photoperiodism and flowering	
	(b) Molecular mechanism of fruit ripening	
	(c) Physiological effects of auxins and their applications in agriculture	
8.	Write short notes on any two of the following:	(2×10=20)
	(a) Electron transport chain in respiration	
	(b) Mechanism of biological nitrogen fixation	
	(c) Coenzymes	

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