Roll No.

1(CCE-M)6 BOTANY - II [04]

Time Allowed -3 Hours

Maximum Marks-300

INSTRUCTIONS

- i) Answers must be written in English.
- ii) The number of marks carried by each question is indicated at the end of the question.
- iii) The answer to each question or part there of should begin on a fresh page.
- iv) Your answer should be precise and coherent.
- v) The part/parts of the same question must be answered together and should not be interposed between answers to other questions.
- vi) Candidates should attempt FIVE questions. Questions No's. 1 and 5 and compulsory and remaining THREE questions selecting at least ONE from each section.
- vii) If encounter any typographical error, please read it as it appears in the text book.
- viii) Candidates are in their interest advised to go through the General Instructions on the back side of the title page of the Answer Script for strict adherence.
- ix) No Continuation sheets shall be provided to any candidate under any circumstances.
- x) Candidates shall put a cross (X) on blank pages of answer Script.
- xi) No blank page will be left in between answer to various questions.
- xii) No programmable Calculator is allowed.
- xiii) No stencil (with different marking) is allowed.
- xiv) In no circumstances help of scribe will be allowed.

SECTION-A

1. Write short notes on any SIX of the following:

 $(6 \times 10 = 60)$

- a) Peroxisome
- b) Chiasmata
- c) Gene
- d) Polytene chromosome
- e) Seed dormancy

	g)	F	ermentation		
	h)	E	ssential oil		
2.	a)	W	hat are the physiological changes occur in plant day or night?	s due to the length (3×20=60)	
` ,	b)			(320-00)	
	c)		plain gene expression?		
3.	a)	Write in detail about sex linked inheritance? (3×20=60)			
	b)	How nutrients are transported in plants?			
	c)	Ex	plain oil and fiber yielding plants?		
4.	a)	(3^20-00)			
	b)	Describe ecological succession?			
	c)	What are plant hormones? Explain plant growth hormones in details?			
			SECTION-B	and the second of the	
5.	Wr	Write short notes on any SIX of the following $(6\times10=60)$			
		a)	Fruit ripening	2 12 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		b)	Plasmodesmata		
		c)	Prokaryotic cell wall		
		d)	Chi - square analysis		
		e)	Afforestation		
		f)	Rubisco	•	
		g)	Photorespiration		
		h)	Seed germination		
6.	a)	Describe in detail about nitrogen fixation? (3×20=60)			
	b)	Explain light reaction and carbon fixation reaction of Photosynthesis?			
	c)		How many types of forest are there in India? Explain in details?		
7.	a)	What is phenylketonurea? Describe in details about protein (3×20=60) synthesis?			
(04)	-II		(2)		

Point mutation

f)

Write in details about pollution and its controlling methods? c) Describe in details about enzymes? Write the botanical name, systemic position and economic importance $(10 \times 6 = 60)$ of the following: Rubber a) Turmeric b) Fennel c) Cedar wood d) Pine e) Rye f) Madagascar periwinkle g) Cashew nut h)

(3)

8.

Pea

Jackfruit

i)

j)

(04)-II