This question paper contains 2 printed pages]

WT-22-2024

FACULTY OF SCIENCE

M.Sc. (Second Year) (Third Semester) EXAMINATION NOVEMBER/DECEMBER, 2024

(CBCS/New Pattern)

BOTANY

Paper-XI

(Plant Physiology)

(Tuesday, 10-12-2024)

Time: 2.00 p.m. to 5.00 p.m.

Time—3 Hours

Maximum Marks—75

- N.B. := (i) Attempt all questions.
 - (ii) All questions are compulsory and carry equal marks.
 - (iii) Draw neat and well labelled diagrams wherever necessary.
- Define Transpiration. Give their types and describe in detail mechanism of stomatal transpiration.

Or

Define mineral nutrition. Give a detailed account on sources, functions and deficiency symptoms of micro-elements.

P.T.O.

WT	(2) WT—22—202	24
2.	Describe in detail practical applications and mechanism of biosynthesis	of
		.5
	Or or	
	What is seed dormancy? Give a detailed account on their causes and method	ls
	of breaking seed dormancy.	
3.	Give a detailed account on C ₄ pathway.	5
	Or A	
	What is photophosphorylation? Give a detailed mechanism of non-cycl	ic
	photophosphorylation.	
4.	Give a detailed account on mechanism and regulation of Krebs' cycle. 1	5
	the contract of the contract o	
	What is oxidative phosphorylation? Describe in detail mechanism of Electron	n
	Transport System (ETS) for ATP synthesis.	
5.	Write short notes on (any three):	5
	(a) Osmosis	
	(b) Phytochrome	
	(c) Photosynthetic pigments	
	(d) Fermentation.	
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