This question paper contains 2 printed pages]

B-48-2019

FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. (Third Year) (Sixth Semester) EXAMINATION MARCH/APRIL, 2019

(CBCS Pattern)

BOTANY

Paper-XIV (Compulsory)

(Fri	(Plant Metabolism Biocher day, 22-03-2019)	nistry and Biotechnology) Time: 10.00 a.m. to 12.00 noon
Time—2 Hours		Maximum Marks—40
N.B	:— (i) Attempt All questions.	
	(ii) All questions carry equa	l marks.
	(iii) Draw neat and well lab	elled diagrams wherever necessary.
1.	Write short notes on (any four):	
	(a) Photo synthetic pigments.	
	(b) Lactic acid fermentation.	
	(c) Enzymes nomenclature.	
	(d) Cellular totipotency.	
	(e) DNA Ligase.	
369	(f) Ti plasmid.	
2.	Write notes on (any two):	8
	(a) Ultrastructure of chloroplast	
	(b) Cyclic photophosphorylation.	
	(c) Lock and Key model of enzy	me action.
3.	Describe in detail Kreb cycle.	8
		r
	Describe in detail biological symbio	otic nitrogen flxation.

P.T.O.

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4. Write notes on (any two):

8

- (a) Tissue culture media.
- (b) Anther culture.
- (c) NCBI.
- 5. Describe process of disease free plants production through tissue culture.8

Or

Describe in detail Agrobacterium mediated gene transfer.

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