

## JAZ-1603120602030300

Seat No. \_\_\_\_

## M. Sc. (Biochemistry) (Sem. III) (CBCS) Examination December - 2019

## EBC - 3: Plant Biochemistry

		EDC - 5. Hant Diochemistry	
Time	:	$2\frac{1}{2}$ Hours] [Total Marks : $70$	)
	(1) (2) (3) (4) (5) (6) (7) (8) (9)	ver the following: (any seven out of ten)  Plant growth regulators.  Terpenoids with examples.  Bioreactor.  List the plant secondary metabolites and the pathway.  Phytohormones with significance.  Flavonoids with examples.  Significance of transpiration.  Define CAM in plants.  Significance of vacuoles.  Plasmodesmata junction.	F
( (		wer the following: (any <b>two</b> out of four)  Water stress physiology in plants.  Cell interaction through plasmodesmata.  Explain in detail the primary and secondary cell wall in plants.  Calvin cycle.	ŀ
(		e short note on :  Osmoprotectant.  Explain the role of ethylene during the stress conditions in plant.  OR	ļ
(		ver the following:  Photorespiration.  Structural and biochemical aspects of cell plate.	Ļ
(		e short notes on : 14 Z-scheme Photosynthesis. Meristemic cells.	t
(	Ansv (1) (2) (3) (4)	wer the following: (any <b>two</b> out of four) Role of phenolic compound in plant defense mechanism. Mechanism of conduction and transpiration of water in plants. Discuss IAA as plant hormone. Discuss the way of commercial production of plant secondary metabolites.	F