M.Sc. Botany (Life Science)

Semester - III - Theory Examination, oct-Nov-2017 Paper - 10: Plant Physiology and Metabolism

Time: 2.30 Hrs Subject code: 3687 Total Marks: 70

INS	STRUCTIONS: (1) Draw a labeled diagram where ever it is ne (2) Figure on right side indicates marks of questions.	5
Q.1	(a) Explain the phenomenon of Plasmolysis in Plant cell.	(7)
	(b) Explain about Chlorosis, Necrosis and Splitting of fruit.	(7)
	OR	
Q.1	Describe the role of essential elements.	(14)
Q.2	(a) Write a note on factor affecting on photosynthesis	(7)
	(b) Describe: Calvin Cycle.	(7)
	OR	
Q.2	Write a note on light reaction of photosynthesis.	(14)
Q.3	(a) Write a note on TCA Cycle.	(7)
	(b) Describe: Glycolysis.	(7)
	OR	
Q.3	Describe: Classification of Lipid.	(14)
Q.4	(a) Explain importance of sulfate assimilation in plants.	(7)
	(b) Explain non-biological nitrogen fixation.	(7)
	OR	
Q.4	Describe: Symbiotic nitrogen fixation.	(14)
Q.5	(a) Describe: Photoperiodsm in plant.	(7)
	(b) Write a note on vernalization in plant.	(7)
	OR	
Q.5	Write a note on abiotic stress.	(14)