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GIET UNIVERSITY, GUNUPUR – 765022
M. Sc(Third Semester) Examinations, December' 2020
PSPC 302 – PLANT PHYSIOLOGY
(Plant Science)

Time: 2 hrs

Maximum: 50 Marks

(The figures in the right hand margin indicate marks.)

Q.2. Answer **ALL** the questions

(2 x 10 = 20 Marks)

- Define ascent of sap
- Write the deficiency of nitrogen
- What are the 3 stages of signal transduction?
- Define photorespiration?
- What is water potential?
- What is trace elements in plants?
- Define short day plant
- What is CAM pathway?
- Write the significance of transpiration?
- Where does Photorespiration occur?

PART – B (6 x 5 = 30 Marks)

Answer ANY FIVE questions

Marks

- How do plants absorb water from the soil? Describe the factors which affect the rate of absorption (6)
- Comment briefly on mechanism of stomatal movement (6)
- Write note on mineral deficiency in plants (6)
- Give an account on hydroponics (6)
- Write an essay on signal transduction (6)
- What is photophysiology? What role does phytochrome play in plant responses to light? (6)
- Describe the mechanism of respiration in CAM plants and compare it with photorespiration (6)
- Give an account of Calvin cycle (6)

--- End of Paper ---