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GIET UNIVERSITY, GUNUPUR – 765022
M. Sc. (Third Semester) Examinations, December – 2022
20PSPE302 – Plant Physiology
(Life Science – Plant Science)

Time: 3 hrs

Maximum: 70 Marks

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

PART – A**(2 x 10 = 20 Marks)****Q.1. Answer ALL Questions**

	CO #	Blooms Level
a. What are the aspects of water potential?	CO 1	K1
b. What do you mean by passive absorption of water?	CO 1	K1
c. Define velamen tissue?	CO 2	K1
d. What is the importance of ion-exchange?	CO 2	K3
e. Define respiratory substrates?	CO 3	K2
f. What is anaerobic respiration?	CO 3	K1
g. Define quantum requirement?	CO 4	K1
h. What is fluorescence?	CO 4	K2
i. Define kranz anatomy?	CO 4	K3
j. What do you mean by parthenocarpy?	CO 4	K2

PART – B**(10 x 5 = 50 Marks)**Answer ANY FIVE questions

	Marks	CO #	Blooms Level
2. a. Give an account of ascent of sap in plants?	7	CO 1	K2
b. What are the limitation transpiration pull?	3	CO 1	K1
3.a. Explain in details of Munch's mass flow hypothesis?	7	CO 1	K3
b. Explain mechanism of contact exchange?	3	CO 1	K2
4. a. Describe the importance and deficiency symptoms of five major nutrients?	7	CO 2	K2
b. Draw the structure of Chloroplast and write its function?	3	CO 2	K1
5.a. Give an account of Kreb cycle?	7	CO 3	K2
b. Explain in details on respiratory quotient?	3	CO 3	K2
6. a. Discuss on photophosphorylation of green plants?	7	CO 3	K3
b. Define Quantasome?	3	CO 3	K2
7.a. Discuss on physiology of flowering in plants?	7	CO 4	K3
b. Write on anti-transpirants?	3	CO 4	K2
8. a. Give an account of photorespiration in plants?	7	CO 4	K2
b. Discuss about Phytochromes?	3	CO 4	K1

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