

BOT - 121
GOVERNMENT COLLEGE (AUTONOMOUS), RAJAHMUNDRY

II year B.Sc., Program Examinations at IV Semester End

Botany Paper – 4: Plant Physiology and Metabolism

Model Question Paper (w.e.f. 2018-19)

Time: 3 Hrs.

Max. Marks: 50

Section – A

4 x 5=20

M

Answer any Four of the following questions. Draw diagrams wherever necessary.

1. Imbibition
2. General characteristics of enzymes
3. Emerson enhancement effect
4. Crassulacean Acid Metabolism
5. Anaerobic respiration
6. C4 Cycle
7. Sigmoid growth curve
8. Vernalization

Section – B

3 x 10=30 M

Answer any Three of the following questions. Draw neat labeled diagrams wherever necessary.

9. Discuss the concept and components of water potential.
10. Describe the mechanism of enzyme action.
11. Write an essay on non-cyclic photophosphorylation.
12. Write an essay on the Classification of lipids
13. Write an essay on the physiological effects of Gibberellins.

BOT - 121
GOVERNMENT COLLEGE (AUTONOMOUS), RAJAHMUNDRY
II B.Sc., Botany Practical Examinations at the end of IV Semester
(Plant Physiology and Metabolism)
Botany Model Practical Question Paper - IV (w.e.f. 2018-19)

Time: 3 hours

Max.Marks:50

1. Experiment 'A' Major experiment from Plant-Water relations /Plant metabolism **15 M**

Scheme of valuation: Aim, principle and procedure – 5 M

Conduct of experiment – 6M

Report of result and inference – 4 M

2. Experiment 'B' Minor experiment **07 M**

Scheme of valuation: Aim, principle and procedure – 5 M

Report of result and inference – 2 M

3. Scientific observation and data analysis **4 x 5=20 M**

D. Plant – Water relations

E. Mineral nutrition and Enzymes

F. Plant metabolism

G. Plant growth and development

Scheme of valuation: Identification -1 M + Diagram – 1 M + Reasons/analysis – 3 M

4. Record _ Viva-voce **5 + 3=8 M**