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(FYUGP)

(6th Semester)

verse notes centhe foliaming: - - in a large 15 BOTANY TERRITORN (AD)

( MAJOR ) montestoriq His Syrtiman of creir

(W) Photorespir Paper: BCC-13(T)

Plant Metabolism ) Topolike ! raymes unvolved and the site

Full Marks : 75 Trange Than to Pass Marks: 40%

Time: 3 hours

The figures in the margin indicate full marks for the questions (4b) Progression and an appropriate (4b)

detail the synthesis and 1. Discuss in degradation of sucrose in plants. of god his in the manufacture is the addition.

Write notes on the following:

7½×2=15

- Virue attactores allowing Role of regulatory enzyme in regulation (a) of metabolism rangesem bhoself (a)
- Anabolic and catabolic pathway

(Turn Over)

L25/493

GI-THE

THEN 2=15

2. Explain C<sub>4</sub> pathway of photosynthesis. Add a note on the role of photosynthesis pigments. 8+7=15 LICOUPT!

Or.

Write notes on the following:  $7\frac{1}{2} \times 2 = 15$ 

- Mechanism of ATP synthesis in (a) photochemical reaction
- Photorespiration (b)
- 3. Describe the reactions of TCA cycle indicating the enzymes involved and the site of ATP synthesis with labelled diagram. 15

Or

Write notes on the following:  $7\frac{1}{2}\times2=15$ 

- (a) Glycolysis
- (b) Pentose phosphate pathway
- turns seem title of the property of the seems of the seem What is signal transduction? Explain the role of cGMP in plant signal transduction. 15

**O**# Write notes on the following: (a) Second - Tollowing: 7½×2=15

- (a) Second messenger concept (a)
- (b) Calcium calmodulin

5. Discuss in detail the steps involved in β-oxidation and its role in mobilisation of lipids.

15

Or

Write notes on the following:

71/2×2=15

- (a) Nitrate assimilation
- (b) Synthesis of triglycerides

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