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B+ 70 15

sansmula manda

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(FYUGP)

(6th Semester)



BOTANY MINISTER (13)

(MAJOR)

(b) Photoseconation Paper: BCC-13(T)

(Plant Metabolism)

Full Marks: 75 Pass Marks: 40%

Time: 3 hours a salon sinw

The figures in the margin indicate full marks for the questions (b) Pentosa phosphare pathway

detail the synthesis Discuss 1. in degradation of sucrose in plants. of cOMP in plant sured transduction,

Write notes on the following:

7½×2=15

- Write notes on the fullowing : Role of regulatory enzyme in regulation (a) of metabolism regression broods (p)
- Anabolic and catabolic pathway (b)

(Turn Over)

Ps/200-13(f)

2. Explain C₄ pathway of photosynthesis. Add a note on the role of photosynthesis pigments.

8+7=15

O

Write notes on the following:

7½×2=15

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

Or

Write notes on the following:

7½×2=15

- (a) Glycolysis and march sale
- (b) Pentose phosphate pathway
- 4. What is signal transduction? Explain the role of cGMP in plant signal transduction.

O

Write notes on the following:

71/2×2=15

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

L25/493

(3)

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

Or

Write notes on the following:

7½×2=15

15

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



5/493 (Continued)

L25-100/493

Bs/BCC-13(T)