

2023/TDC(CBCS)/EVEN/SEM/ BOTHCC-601T/230

B. White about the face of pro-

6. What is Co

TDC (CBCS) Even Semester Exam., 2023

BOTANY

Honours) distinctiffe ...

(6th Semester)

Course No.: BOTHCC-601T

(Plant Metabolism)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

SECTION—A

Answer any ten of the following questions: $2\times10=20$

- 1. Write about allosteric regulation.
- 2. Differentiate between anabolism and catabolism.

J23/799 (Turn Over)



in payor papan(021).

3. Write a note on regulation of metabolism.

4. Define photochemical reactions.

5. Differentiate between PS-I and PS-II.

6. What is C2 cycle?

7. Write a note on anaplerotic reactions.

8. Write about the fate of pyruvate.

9. What is pentose phosphate pathway?

10. Write a note on second messenger concept.

11. Give a brief account of Racker's experiment.

12. Write about ATP synthase.

13. Write a note on α -oxidation.

14. Give a brief account of glyoxylate cycle.

15. Define nitrate assimilation.

J23/799

(Continued)

(3)

SECTION-B

Answer any five of the following questions:

6×5=30

16. Write notes on the following:

3+3=6

3+3=6

(a) Covalent modulation

(b) Catabolic pathways

17. Give a detailed account of isoenzymes.

 Give an illustrated account of role of various photosynthetic pigments.

19. Give a short account of CAM cycle. Differentiate between C₃ and C₄ plants.

20. Write notes on the following:

(a) NADH shuttle

(b) Cyanide resistant respiration

21. Give an account of glycolysis with schematic representation.

22. Give a detailed account of receptor-ligand interaction.

J23/799

(Turn Over)

(4)

23. Write notes on the following:

3+3=6

- (a) MAP kinase cascade in lo unit was in the
- (b) Calcium calmodulin
- 24. Give an illustrated account of β-oxidation of fatty acid.
- 25. Write about biological nitrogen fixation.

anothry to shoute mueses but the grown with

uning the best at the early the there are

actorque agaptic sinas (6)

or the section of the control of the first transfer to the by the self-

Brownie so of aviousives all

winters and PallAll Try