

2022/TDC (CBCS)/EVEN/SEM/ BOTHCC-601T/278

TDC (CBCS) Even Semester Exam., 2022

BOTANY Hist at ted 21 .5

(Honours)

(6th Semester)

Course No.: BOTHCC-601T

(Plant Metabolism)

Full Marks: 50 min are fiedw A Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

SECTION—A Common with the ST

Answer any ten of the following questions: and tager and ingular on 2×10=20

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- Define enzymes.
- What is activation energy? 2.
- Name two accessory pigments. 3.
- 4. What is the role of antenna molecules?

(Turn Over)

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'5. Define photorespiration. (2717) 2011

6. What is the full form of CAM?

7. Name the most abundant enzyme in nature.

- 8. What are the sources of energy for photosynthesis?
- 9. What are plastids?
- 10. What is Boyer's conformational model?
- 11. What are the factors affecting respiration?
- 12. Define germination.
- 13. Name two nitrogen fixing organisms.
- 14. What is the first stable product of Krebs cycle?
- 15. Define transamination.

(Continued)

([3.)

SECTION-B

Answer any five of the following questions: 6×5=30

16. Write short notes on the following: 3×2=0

(a) Anabolic pathways

(b) Metabolic regulation

- 17. What is the role of regulatory enzyme in plant metabolism?
- 18. With a neat diagram, discuss C4 cycle.
- 19. Discuss the electron transport system in photosynthesis.

20. Write notes on the following:

3×2=6

ion a wirth . Fig.

- (a) Oxidative phosphorylation
- (b) Pentose phosphate pathway
- 21. With schematic representation, discuss Krebs cycle.
- 22. Discuss in detail the mechanism of ATP synthesis.

23. Write notes on the following:

3×2=6

- (a) Receptor ligand interaction
- (b) Role of uncouplers

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- 24. What do you understand by gluconeogenesis? Discuss the role of gluconeogenesis in lipid mobilization during seed germination.
- 25. Write a role on biological nitrogen fixation.

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21. U. H. Schubbauc teprescott.com. discuss

23. Dayles on detail the excut, aciden of

23 Manu Lotes on the following ... Receptor ligand intersection

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