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Subject Title: Intermediary Metabolism Prepared by: S. Thejaswi

Year: II Semester: IV Updated on: 22-3-

Unit - I: Amino acid Metabolism

Essay Questions:

- 1. Write about the general reactions of aminoacids?
- 2. Elucidate the steps involved in the urea cycle and its regulation?
- 3. Write briefly about the Metabolism of Aromatic amino acids?
- 4. Write briefly about the Metabolism of Branched chain amino acids?

Short Answer:

- 5. Metabolism of Glycine
- 6. Biosynthesis of creatinine
- 7. Phenylalanine
- 8. Albinism
- 9. Catabolism of carbon skeleton of aminoacids
- 10. Mapple syrup disease

Unit - II: Carbohydrate Metabolism

Essay Questions:

- 11. Write in detail about the Light reaction of Photosynthesis?
- 12. Write briefly about the dark reactions of Photosynthesis?
- 13. Elucidate the steps involved in the HMP pathway &its importance?
- 14. Explain the metabolism of Glycogen?
- 15. Write in detail about the Gluconeogenesis?

Short Answers

- 10. Fate of pyruvate
- 11. Anaplerotic reactions
- 12. C₄ pathway
- 13. CAM plants



- 14. Anabolism & Catabolism
- 15. Pasteur effect

Unit - III: Lipid Metabolism

Essay Question

- 16. Write about the β- oxidation of fatty acids (Even &odd Chain)
- 17. Explain the Biosynthesis of Cholesterol and its regulation?
- 18. Explain the biosynthesis of Fatty acid synthesis?

Short Answers

- 19. Biosynthesis of Triacylglycerides
- 20. Ketogenesis
- 21. Lecithin Synthesis

Unit - IV: Nucleic acid Metabolism

Essay Questions

- 22. Write in detail about the synthesis of Purines and its regulation
- 23. Write in detail about the synthesis of Pyrimidines and its regulation
- 24. Biosynthesis and Degradation Heme
- 25. Write about the synthesis and catabolism of purines?
- 26. Write about the synthesis and catabolism of pyrimidines?

Short Questions

- 27. Gout
- 28. Lesch-Nynan syndrome
- 29. Biosynthesis of Deoxynucleotide
- 30. Catabolism of Purines
- 31. Catabolism of Pyrimidines