

NOVEMBER 2017

**1709117/UBYM52A**

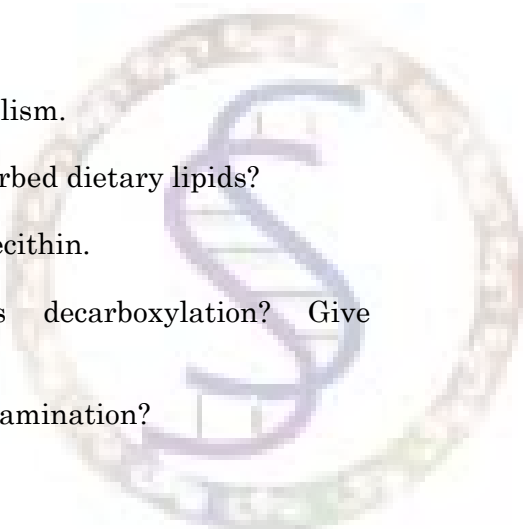
Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer any TEN questions.

Each question carries 2 marks.

1. Give the structure of tyrosine and epinephrine.
  2. Give the structure of tryptophan and nor epinephrine.
  3. What is melanin?
  4. Define gluconeogenesis.
  5. Define the term metabolism.
  6. What is the fate of absorbed dietary lipids?
  7. Draw the structure of lecithin.
  8. What is known as decarboxylation? Give examples.
  9. What is meant by transamination?
  10. Define redox potential.
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11. Define substrate level phosphorylation.
12. Name any two inhibitors of glycolysis.

SECTION B — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

13. Brief notes on the degradation of tyrosine.
14. Write short notes on Cori cycle.
15. Explain the process involved in Ketogenesis.
16. Comment on the Decarboxylation of amino acids.
17. Write a note on Non oxidative Deamination.
18. What is P/O Ratio? Explain the role of uncouplers.
19. Write short notes on Gluconeogenesis.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

Each question carries 10 marks.

20. Discuss the catabolism of tyrosine and tryptophan.
21. Explain the reactions of TCA Cycle.

22. Elaborate the pathway involved in synthesis of saturated fatty acid.
  23. Discuss in detail about the Deamination of amino acids.
  24. Describe the arrangement of components of ETC.
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