

APRIL 2018

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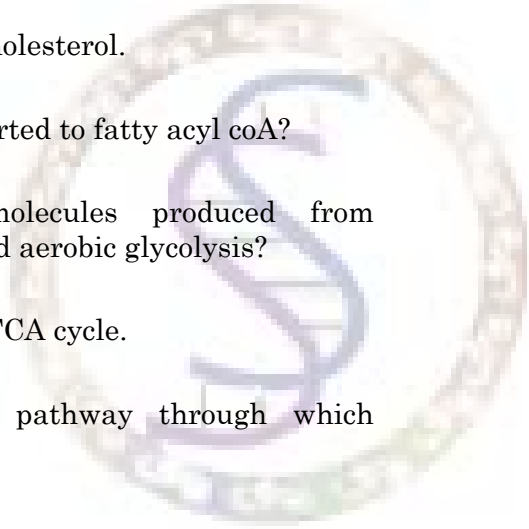
Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer any TEN questions.

(Each question carries 2 marks)

1. What is epinephrine?
 2. Name the sulphur containing amino acids.
 3. What is norepinephrine?
 4. Give the structure of cholesterol.
 5. How is fatty acid converted to fatty acyl coA?
 6. How many ATP molecules produced from anaerobic glycolysis and aerobic glycolysis?
 7. Give the energetics of TCA cycle.
 8. Name the metabolic pathway through which ammonia is detoxified.
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9. Write a note on the site of occurrence of urea cycle.
10. List the components of ETC.
11. Define Standard redox potential.
12. Name any two uncouplers.

SECTION B — (5 × 5 = 25 marks)

Answer any FIVE questions.

(Each question carries 5 marks)

13. Brief notes on the synthesis of epinephrine.
14. Give an account on glyoxalate cycle.
15. Explain the role of PLP.
16. Comment on the formation of creatine.
17. Write a note on the synthesis of Triglycerides.
18. Write about the inhibitors of oxidative phosphorylation.
19. Explain covalent modification in glycogen metabolism.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

(Each question carries 10 marks)

20. Discuss the catabolism of Sulphur containing amino acids.
21. Describe mechanism involved in Glycogenesis and Glycogenolysis.
22. Elaborate the pathway of synthesis of Cholesterol.
23. Outline the Oxidative deamination of amino acids.
24. Describe the mechanism of Chemiosmotic theory.

