

NOVEMBER 2017

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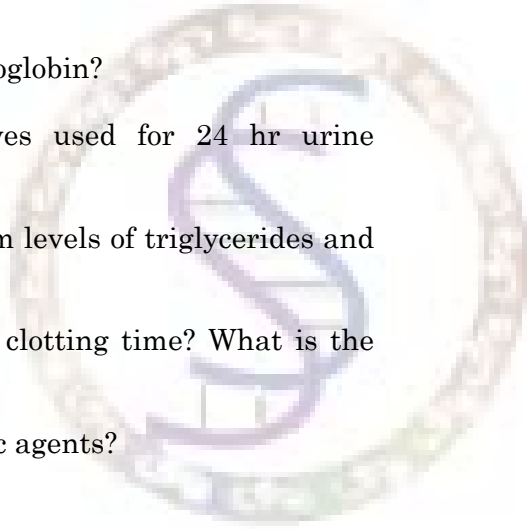
Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 1 = 10 marks)

Answer any TEN questions.

Each question carries 1 mark.

1. What precautions are necessary during transport of biological samples?
 2. What is accuracy and precision?
 3. Name two anticoagulants used for plasma collection.
 4. What is glycated haemoglobin?
 5. Name the preservatives used for 24 hr urine sample.
 6. Write the normal serum levels of triglycerides and total cholesterol.
 7. What do you mean by clotting time? What is the normal value?
 8. What are hypolipidemic agents?
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9. Write the findings and symptoms of calcium deficiency.
10. What is aplastic anemia?
11. Write the biological functions of phosphorus.
12. What are the factors that affect calcium level in blood?

SECTION B — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

13. Write an account on the blood and urine specimen collection.
14. Discuss the sources of error during sample analysis.
15. What are the causes, symptoms and management of hypoglycaemia?
16. Describe blood clotting disorders.
17. Discuss the biological functions of calcium.
18. Explain the types of porphyrias.
19. Explain the lipoproteinemias and its significance,

SECTION C — (4 × 10 = 40 marks)

Answer any FOUR questions.

Each question carries 10 marks.

20. Write an account on good laboratory practices. Add a note on result interpretation.
21. Describe the classification, symptoms and diagnosis of diabetes mellitus.
22. Write notes on thrombocytopenia and leucopenia.
23. What is atherosclerosis? Discuss the causes and pathology of the disease.
24. Write an essay on the disorders of calcium and phosphorus metabolism.
25. Discuss familial and acquired hyperlipoproteinemias with reference to etiology and pathology.