

**FINAL YEAR B.Sc. DEGREE EXAMINATION, MARCH/APRIL 2005****Part III – Biochemistry (Main)****Paper VI – CLINICAL AND ANALYTICAL BIOCHEMISTRY**

Time : Three Hours

Maximum : 55 Marks

**Part A**

*Answer any ten questions.  
Each question carries 2 marks.*

1. Indicate the reaction catalysed by glucose oxidase.
2. How are lipoproteins classified ?
3. What is direct-reacting bilirubins?
4. Differentiate between blood and plasma.
5. What is enterohepatic circulation ?
6. What is gout ?
7. What are the major proteins in milk ?
8. What is BOD ?
9. What are gram-positive bacteria ?
10. Indicate the chemical composition of soft drinks.
11. What is the mode of action of mercury?
12. Indicate the effects of Opium.

(10 × 2 = 20 marks)

**Part B**

*Answer any five questions.  
Each question carries 5 marks.*

13. Show how blood specimens are collected and preserved.
14. How is glucose in blood determined chemically ?
15. Give the structure of cholesterol and show how it is estimated.
16. How is jaundice classified and differentiated ?
17. How are reducing and non-reducing sugar content of food materials determined ?
18. Explain sterilization methods.
19. Write briefly on staining techniques.

(5 × 5 = 25 marks)

**Turn over**

**Part C**

*Answer any one question.  
This question carries 10 marks.*

20. Describe tests to assess liver function.
21. Explain industrial production of alcohol.

(1 × 10 = 10 marks)