

QP CODE: 20100870

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20100870

Reg No : .....

Name : .....

**B.Sc DEGREE (CBCS) EXAMINATION, MARCH 2020**

**Fourth Semester**

**Complementary Course - BC4CMT04 - BIOCHEMISTRY- NUTRITIONAL AND  
CLINICAL BIOCHEMISTRY**

(Common for B.Sc Botany Model I, B.Sc Botany Model II Environmental Monitoring And Management, B.Sc Botany Model II Food Microbiology, B.Sc Botany Model II Horticulture and Nursery Management, B.Sc Botany and Biotechnology Model III Double Main, B.Sc Zoology Model I, B.Sc Zoology Model II Aquaculture, B.Sc Zoology Model II Food Microbiology, B.Sc Zoology Model II Medical Microbiology, B.Sc Zoology and Industrial Microbiology Model III (Common for Double Main, B.Sc Biological Techniques and Specimen Preparation Model III, B.Sc Biotechnology Model III, B.Sc Botany Model II Plant Biotechnology, B.Sc Biotechnology Model III, B.Sc Microbiology Model III )

2017 Admission onwards

E3F321EB

Time: 3 Hours

Marks: 60

**Part A**

*Answer any ten questions.*

*Each question carries 1 mark.*

1. Give the nutritional importance of pulses.
2. Define respiratory quotient.
3. What are essential aminoacids?
4. What are thrombocytes?
5. Name the method of separation used for fractionation of globulins.
6. What is the role of thrombin in blood clotting?
7. Define precision.
8. What is CSF? Give its importance.
9. What you mean by total bilirubin? Give its normal range.
10. Point out the role of LDL in atherosclerosis.
11. Compare ketosuria and ketolysis.
12. Define hypoglycemia.

(10×1=10)





### Part B

Answer any **six** questions.

Each question carries **5** marks

13. Which are the B complex vitamins? Explain the physiological significance.
14. What are minerals? Explain the dietary significance.
15. What is anaemia? Explain.
16. Give an account on blood platelets.
17. Briefly explain blood clotting mechanism.
18. Briefly explain thyroid function tests.
19. Analyze the importance of serum creatinine in kidney function.
20. Outline the degradation of lactose in lactose intolerant patients.
21. Compare the different types of diabetic mellitus.

(6×5=30)

### Part C

Answer any **two** questions.

Each question carries **10** marks.

22. Write an essay on fat soluble Vitamins.
23. Outline the structure and functions of Haemoglobin.
24. Explain the collection, preservation and storage of urine samples.
25. Explain the types, causes, symptoms of hyperlipidemia.

(2×10=20)

