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P – 4070

Reg. No. :

Name :

Third Semester B.Sc. Degree Examination, January 2023

Career Related First Degree Programme under CBCSS

Group 2(a) – Botany and Biotechnology

Complementary Course :

BB 1331 : PHYSIOLOGICAL ASPECTS IN BIOCHEMISTRY

(2014-2018 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Very Short Answer Type – maximum **two** sentences. Answer **all** questions.

1. Name two abnormal constituents in urine.
2. What is clotting time? What is the normal clotting time.
3. Name the coenzyme forms of niacin.
4. Name the deficiency diseases of vitamin A and vitamin D.
5. Name the organ involved in detoxification.
6. Name two buffers in blood.
7. Give one cause for hypercholesterolemia?
8. Name two hormones secreted by adrenal cortex?

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9. Write the structure of T₄.
10. What is the function of iodine in our body?

(10 × 1 = 10 Marks)

SECTION – B

Short answer questions-not to exceed **one** paragraph. Write short notes on any **eight** of the following.

11. Erythropoiesis
12. Lymphocytes
13. Functions of Vitamin E
14. BMR
15. Renal function tests
16. Normal constituents in urine
17. Respiratory acidosis
18. Metabolic acidosis
19. Diabetes
20. Hemophilia
21. Functions of adrenalin
22. Vasopressin

(8 × 2 = 16 Marks)

SECTION – C

Write short essays. (not to exceed **120** words) on any **six** of the following.

23. Iron metabolism
24. Sources and functions of Na and K
25. Formation of urine
26. Buffers in Blood
27. CO_2 transport in blood
28. Obesity
29. Structure and functions of thyroid hormones
30. Blood groups
31. Corticosteroid hormones

(6 × 4 = 24 Marks)

SECTION – D

Long Essay. Answer any **two** questions.

32. Describe the structure and function of hemoglobin.
33. Discuss the functions of any five water soluble vitamins.
34. Explain the metabolism of Xenobiotics in liver.
35. Explain the Insulin dependent and independent diabetes.

(2 × 15 = 30 Marks)