Reg. No. : ..............................

Name : ..................................

Third Semester B.Sc. Degree Examination, March 2022

Career Related First Degree Programme under CBCSS

Group 2(a)-Botany and Biotechnology

Complementary Course I

BB 1331 : PHYSIOLOGICAL ASPECTS IN BIOCHEMISTRY

(2014-2018 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – I

Answer all questions. Each carries 1 mark.

1. What is hematopoiesis?

2. What are the functions of WBC?

3. Can obesity lead to cancer?

4. What are the steps involved in urine formation?

5. Draw the structure of T4.

6. What does ACTH promote?

7. Which are water soluble vitamins?

8. Name any two examples of protein hormones.

9. What is the role of carbonic anhydrase in the body?

10. What are the buffering systems in blood?

$(10 \times 1 = 10$ Marks)

## SECTION – II

Answer any **eight** questions. **Each** carries **2** marks.

11. Give a note on Bile pigments.

12. What is haemophilia?

13. What are the functions of Fe?

14. Write a note on liver function test?

15. Give a note on Bohr effect.

16. Explain renal threshold value.

17. What is respiratory acidosis?

18. What are the constituents of blood?

19. Draw the structure of nephron.

20. Give a note on respiration.

21. Explain BMR.

22. What is metabolic alkalosis?

$(8 \times 2 = 16$ Marks)

## SECTION – III

Answer any **six** questions. **Each** carries 4 marks.

23. Explain the structure and function of haemoglobin.

24. Give a short note on hypercholesterolemia.

25. Explain organization of endocrine system.

26. What conditions are caused by the lack of vitamin D?

27. Discuss renal function test.

28. Write the structure and function of thyroxine.

29. Write a short note on diabetes.

30. Write briefly the gases are transported in blood.

31. Explain the structure and functions of oxytocin.

$(6 \times 4 = 24$ **Marks**)

## SECTION – IV

Answer any **two** questions. **Each** carries **15** marks.

32. Explain the classification, structure and functions of adrenaline and nor-adrenaline?

33. Describe the steps blood clotting cascade.

34. Discuss the formation of urine and its constituents.

35. What are the different types of jaundice? Explain.

$(2 \times 15 = 30$ **Marks**)

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