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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

BB1331-PHYSIOLOGY AND NUTRITION

(2020 Admission onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** questions in **one** word or in **two** sentences. **Each** question carries **1** mark.

1. Write any two condition in which bleeding time is prolonged?
2. Give short note on hemostasis.
3. Mention the sources of vitamin E.
4. Deficiency of folic acid causes.
5. What are the major aims of PFA Act?
6. What is acid number?
7. What is the normal value of blood urea?
8. Define alkalosis.

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9. Write the reaction catalysed by carbonic anhydrase.
10. What are the hormones secreted from adrenal cortex?

(10 × 1 = 10 Marks)

SECTION – B

Answer any **eight** questions not exceeding **one** paragraph. **Each** question carries **2** marks.

11. What are the different functions of plasma?
12. Mention the different types of WBC.
13. Write short note on Sickle cell anemia.
14. List out the functions of vitamin B7.
15. Define Xerophthalmia.
16. Give short note on hypokalemia.
17. What is Consumer Protection Act in India?
18. How to Prevent Food Adulteration?
19. What are the normal constituents of urine?
20. Define renal threshold.
21. Write briefly about liver function tests.
22. Give a brief note on metabolic acidosis.
23. Mention the importance of bicarbonate buffer.
24. What is Saponifications number?
25. Write any two functions vasopressin.
26. Draw the structure of T3.

(8 × 2 = 16 Marks)

SECTION – C

Answer any **six** questions. Short essay. **Each** question carries **4** marks.

27. Explain the functions of hemoglobin.
28. Illustrate the types and functions of plasma proteins.
29. Give a brief account on the biological functions of vitamin D.
30. Explain the sources and biological functions of vitamin B12.
31. What are the differences between FSSAI and AGMARK?
32. Write down the harmful effects of Food Adulteration in health and disease.
33. Give short note on urine formation.
34. Write any one renal function test.
35. Explain chloride shift.
36. Elucidate the oxygen dissociation curve.
37. Write short note on functions of adrenalin
38. Give a brief note on growth hormone deficiency

(6 × 4 = 24 Marks)

SECTION – D

Answer any **two** questions. Long Essay type. Each question carries **15** marks.

39. Elaborate the hepatic marker enzymes and its significance.
40. Describe the source, functions and significance of Calcium and Sodium.

41. What are the types of Food Adulteration? Explain the methods of Food Adulteration.
42. Explain the mechanism of detoxification in liver with suitable example.
43. How is the blood pH regulated by the kidneys? Explain the mechanism.
44. Write in detail about thyroid hormones and their functions.

(2 × 15 = 30 Marks)
