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Reg. No. :	Sommer 3
Name :	Correction .

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 – PHYSIOLOGY AND NUTRITION
(2020 Admission)

Time: 3 Hours Max. Marks: 80

SECTION - A

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

- 1. What is the other name of Hemophilia B?
- 2. How many heme and O₂ atoms are present in one molecule of oxy haemoglobin?
- 3. Write the chemical name of the following
 - (a) Vitamin b2
 - (b) Vitamin b12
- 4. Deficiency of Vitamin A causes _____
- 5. What is AGMARK?
- 6. What is iodine number?
- 7. What is the normal value of blood creatinine in adults?

SECTION - C

Answer any six questions, short essay. Each question carries 4 marks.

- 27. Explain the structure of hemoglobin.
- 28. List out the major functions of blood.
- 29. Describe the factors influencing BMR.
- 30. Explain the sources and biological functions of vitamin C.
- 31. What are the differences between FSSAI and AGMARK?
- 32. Explain the methods Food Adulteration.
- 33. Explain the structure of nephron.
- 34. Give a brief note on creatinine clearance lest.
- 35. What are the factors that affect gaseous exchange in lungs?
- 36. Explain Bohr effect.
- 37. Write the regulation of thyroid hormone secretion.
- 38. Write short note on functions of nor-adrenalin.

 $(6 \times 4 = 24 \text{ Marks})$

SECTION - D

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

- 39. Describe in detail about blood clotting mechanism.
- 40. Elaborate the sources, function and significance of vitamin A.
- 41. List out the harmful effects of Food Adulteration on Human Health.
- 42. Describe in detail about the liver function test.
- 43. Elaborate the mechanism of renal regulation of acid-base balance.
- 44. Describe the classification of hormones.

 $(2 \times 15 = 30 \text{ Marks})$

- 8. Write the reaction catalysed by Glucose Oxidase.
- 9. What are the other names of adrenalin and nor-adrenalin?
- 10. Expand ACTH and TSH.

 $(10 \times 1 = 10 \text{ Marks})$

SECTION - B

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

- 11. What is Plasma? Mention its constituents.
- 12. Define anticoagulants. Give examples.
- 13. What are lymphocytes?
- 14. Write the deficiency manifestation of thiamine.
- List out the functions of vitamin C.
- 16. What is hyponatremia?
- 17. Define saponification number.
- 18. What is Food Adulteration?
- 19. What is urea clearance?
- 20. Define GFR.
- 21. Write note on detoxification.
- 22. What are blood buffers?
- 23. Give a brief account on metabolic alkalosis.
- 24. Give short notes on Addison's disease.
- 25. Write the name of any two peptide hormones.
- 26. Name the steroid hormones secreted from adrenal gland.

 $(8 \times 2 = 16 \text{ Marks})$