



Reg. No. :

Name :

Third Semester B.Sc. Degree Examination, December 2017
Career Related First Degree Programme Under CBCSS
Group 2(a) Botany and Biotechnology
Complementary Course
BB 1331 : PHYSIOLOGICAL ASPECTS IN BIOCHEMISTRY
(2014 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – I

Answer all questions.

(10×1=10 Marks)

1. What is plasma ?
2. Define eosinophilia.
3. Which are the fat soluble vitamins ?
4. List out the dietary sources of Vitamin-A.
5. What is the normal renal threshold value for glucose ?
6. Define chloride shift.
7. What is Bohr effect ?
8. List out the symptoms of diabetes mellitus.
9. Draw the structure of T_3 .
10. List out the functions of Adrenalin.



SECTION - II

Answer **any eight** questions.

(8×2=16 Marks)

11. Give a note on physical properties of blood.
12. Write the functions of RBC.
13. List out the functions of Vitamin D and Vitamin E.
14. Give a note on Nyctalopia.
15. What is Osteomalacia ?
16. Give the structure of nephron.
17. What is respiratory acidosis ?
18. Give a note on carbonic anhydrase.
19. What is oxygen dissociation curve ?
20. What is hemophilia ?
21. Give a note on hypercholesterolemia.
22. What are the functions of oxytocin ?

SECTION - III

Answer **any six** questions.

(6×4=24 Marks)

23. Write a short note on types of blood cells.
24. Give a note on blood groups.
25. Explain the sources and functions of calcium and sodium.
26. What are the deficiency diseases of Vitamin A ?
27. Write a short note on formation of urine.



28. Differentiate between metabolic acidosis and alkalosis.
29. Explain the types of buffers in blood.
30. Write a short note on diabetes.
31. Give an account of peptide hormones.

SECTION - IV

Answer **any two** questions.

(15×2=30 Marks)

32. Explain the process of blood clotting.
 33. Explain the structure, function and types of hemoglobin.
 34. Give an account of the metabolism of foreign compounds in the liver.
 35. Explain the organization of endocrine system.
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