

Reg. No. :

Name :

Fifth Semester B.Sc. Degree Examination, December 2019

First Degree Programme under CBCSS

Zoology

Core Course VIII

ZO 1543 : PHYSIOLOGY AND BIOLOGICAL CHEMISTRY

(2015 Admission onwards)

Time : 3 Hours

Max. Marks : 80

Draw diagrams wherever necessary.

- I. Answer **all** questions in **one** or **two** sentences. **Each** question carries **1** mark.
1. Xerophthalmia
 2. Myocardial infarction
 3. Anticoagulants
 4. Hypoxia
 5. Neurotransmitters
 6. Cochlea

7. Corpus luteum
8. Glycogenesis
9. Iso enzymes
10. GFR

(10 × 1 = 10 Marks)

II. Answer any **eight** of the following (Answer **not** to exceed one paragraph. **Each** question carries **2** marks).

11. Goitre
12. Bohr effect
13. Dialysis
14. Oxygen debt
15. Parkinson's disease
16. Astigmatism
17. Puberty
18. Islets of langerhans
19. Prostaglandins
20. Haemoglobin
21. Deamination
22. Co enzyme

(8 × 2 = 16 Marks)

III. Answer any **six** of the following (Each Answer should not exceed **120** words. Each question carries **4** marks).

23. Nutritional disorders.

24. Oxygen transport.

25. Ultra structure of striated muscle fibre.

26. Physiology of vision.

27. Hormones of the adrenal cortex.

28. Conjugated lipids.

29. Glycogenolysis.

30. Hormonal control of protein metabolism.

31. Briefly describe the mechanism of enzyme action and factors affecting the process.

(6 × 4 = 24 Marks)

IV. Answer any **two** of the following (**Each** question carries **15** marks).

32. Describe the mechanism of blood clotting and mention various disorders connected with it.

33. Explain the physiology and hormonal control of urine formation with diagrams.

34. Give an account on carbohydrates with special reference to its classification and functions.

35. Write an essay on lipid metabolism.

(2 × 15 = 30 Marks)