TRIVANDRUM

(Pages : 3) **M – 1530**

Reg. No. : .....

Name : .....

Fifth Semester B.Sc. Degree Examination, December 2021

First Degree Programme under CBCSS

Zoology

Core Course

ZO 1543 : PHYSIOLOGY AND BIOLOGICAL CHEMISTRY

(2016 and 2017 Admission)

Time : 3 Hours

Max. Marks : 80

I. Answer the following questions (In **one** or **two** sentences. **1** mark each)

1. Heteropolysaccharides.
2. All or None law.
3. Nephritis.
4. Sphingolipids.
5. Tachy cardia.
6. Gastrin.
7. Xeropthalmia.
8. Atherosclerosis.
9. Myopia.
10. Lecithin.

(10 × 1 = 10 Marks)

P.T.O.

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

11. Ornithine cycle.

12. Neuro transmitters.

13. Conjugated lipids.

14. Dialysis.

15. Bohr effect.

16. Km value.

17. Diabetes insipidus.

18. Prostaglandins.

19. Phospho lipids.

20. Buffer systems.

21. Conducting system and pace maker of heart.

22. Formed elements of blood.

(8 × 2 = 16 Marks)

III. Answer any **six** of the following (Not to exceed **120** words. Each carries **4** marks)

23. Synaptic transmission.

24. Physiology of vision.

25. Ultra structure of striated muscle fibre.

26. Biological functions of carbohydrates.

27. Glycogenesis.

28. Mechanism of blood clotting.

29. Krebs cycle.

30. Mechanism of Enzyme action.

31. Menstrual cycle

(6 × 4 = 24 Marks)

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

32. Describe oxidation of fatty acids.

33. Explain the structure of nephron and the physiology of urine formation.

34. Describe glycogenolysis.

35. Give an account of enzyme inhibition.

(2 × 15 = 30 Marks)
