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Reg. No. : .....

Name : .....

LIBRARY TRIVANDRUM

Sixth Semester B.Sc. Degree Examination, April 2022

First Degree Programme under CBCSS

Zoology

Foundation Course II

ZO 1641 : PHYSIOLOGY AND BIOCHEMISTRY

(2019 Admission)

Time : 3 Hours Max. Marks : 80

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

1. What is marasmus?
2. Who discovered blood groups?
3. What is cardiac cycle?
4. Define Bohr effect.
5. What is cretinism?
6. What is rigor mortis?
7. What is Bowmans capsule?
8. Comment on tocopherol.
9. What is zymogen?
10. What is cori cycle?

(10 × 1 = 10 Marks)

P.T.O.

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

11. Briefly describe the fat soluble vitamins.

12. What is succus entericus?

13. What is arteriosclerosis?

14. Comment on myocardial infarction

15. Differentiate between hypocapnia and hypercapnia.

16. Comment on the types of dialysis.

17. What are neurotransmitters?

18. What are gustatory sense organs?

19. Comment on androgens.

20. What are the hormones of placenta?

21. Give a brief account on nephritis.

22. Comment on astigmatism.

23. What are prostaglandins?

24. What is chemi osmotic theory?

25. Comment on transamination.

26. What are iso enzymes?

(8 × 2 = 16 Marks)

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

27. What are the different types of nutrition?

28. Explain the composition of blood.

29. Give an account on respiratory pigments.

30. What is carbon monoxide poisoning?

31. Give an account on urine formation.

32. Explain the ultra structure of the striated muscle fibre with apt diagrams.

33. Describe the physiology of vision.

34. Briefly explain estrous cycle.

35. Briefly describe the endocrine glands in man.

36. Give an account on polysaccharides.

37. Write notes on conjugated lipids.

38. Comment on enzyme activation.

(6 × 4 = 24 Marks)

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

39. Write an essay on the structure of human digestive system with the help of a diagram.

40. Give an account on the mechanism of blood clotting.

41. Describe the carbon dioxide transport with the help of a flow chart.

42. What is a nerve impulse? Elaborate the conduction of impulse.

43. Give an account on the classification of proteins.

44. Write an essay on the hormonal control of carbohydrate metabolism.

(2 × 15 = 30 Marks)
