

1.

2.

3. Name the disease caused due to the deficiency of Vitamin C.

4. Differentiate aerobic and anaerobic respiration.

5. Define the term Asphyxia.

6. What is a nephron ?

7. Name two important components of urine.

What is meant by heterotrophy?

Name any two fat soluble Vitamins.

What is Nodes of Ranvier? 8.

9. What is muscle fatigue?

10. What are phagocytes?

Time: 3 Hours

& Quality Assurance).

QP CODE: 24026958

2017 Admission Onwards

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Part A Answer any ten questions. Each question carries 1 mark.

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Max. Marks : 60

Reg No 2 Name 5

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE **EXAMINATIONS, OCTOBER 2024**

COMPLEMENTARY COURSE - ZY3CMT03 - ZOOLOGY - PHYSIOLOGY AND **IMMUNOLOGY**

(Common to B.Sc Biological Techniques and Specimen Preparation Model III, B.Sc Botany and Biotechnology Model III Double Main, B.Sc Botany Model I, B.Sc Botany Model II Environmental Monitoring And Management, B.Sc Botany Model II Food Microbiology, B.Sc Botany Model II Horticulture and Nursery Management, B.Sc Botany Model II Plant Biotechnology, B.Sc Family & Community Science Model I, B.Sc Food Science & Quality Control Model III, B.Sc Food Technology

Third Semester



- 11. What is the use of WIDAL test?
- 12. Distinguish between HIV & AIDS.

 $(10 \times 1 = 10)$

Part B

Answer any **six** questions. Each question carries **5** marks.

- 13. Explain the intrinsic and extrinsic path way in the activation of prothrombin, which leads to the formation of blood clot to prevent blood loss.
- 14. Explain the following terms:

a). Anticoagulant with an example.	(2 marks)
b). Hemophilia	(1 mark)
c). Arteriosclerosis	(1 mark)
d). thrombosis.	(1 mark)

- 15. a) Give an account of hormonal control of renal function. (3 marks)b) State the sturcture and function of Juxta Glomerular Apparatus. (2 marks)
- 16. Differentiate between the different types of Muscle.
- 17. Briefly describe the hormones of adenohypophysis.
- 18. Define Immunoglobuin and give an account of the different types.
- 19. Describe Immunoglobulin G and its function.
- a). State in your own words how the antibodies produced by the cells of the immune system differ from the monoclonal antibodies prepared by the hybridoma technology. (2 marks)

b).Give a brief account of the hybridoma technology for the production of monoclonal antibodies. (3 marks)

21. What is a vaccine? How does it function in the immune system? Explain the mechanism with the help of Polio vaccine.

(6×5=30)

Part C

Answer any **two** questions. Each question carries **10** marks.

22. Explain in detail the composition of the liquid connective tissue. Mention the function of each component.





- 23. Using the help of a neatly labeled diagram of Nephron, explain the mechanism of urine formation. State the role of hormones in regulation of water and minerals in the nephron.
- 24. Classify hormones and give a detailed account of the various hormones of the endocrine glands stating its function.
- 25. Describe Anitgen Antibody reactions and add brief notes on WIDAL, VDRL and ELISA tests.

(2×10=20)