



QP CODE: 23104237



23104237

Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, JANUARY 2023**

Third Semester

**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 & Quality Assurance)

2017 Admission Onwards

C1878ABE

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. What is osteoporosis?
2. What is the purpose of respiration?
3. List the functions of leucocytes.
4. What is an anticoagulant? Give one example.
5. Distinguish between hypotension and hypertension
6. What is Juxta Glomerular Apparatus?
7. What is tubular reabsorption?
8. What are kidney stones?
9. What is Nodes of Ranvier?
10. Define acute inflammation.
11. Expand ELISA.





12. What are Monoclonal Antibodies?

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Explain different types of nutrition.
14. What are the different types of nutrients required by our body? State their building blocks and function in the body.
15. Name the unit of myofibril. Give an account of the different types of contractile proteins seen in each unit.
16. Explain Oxygen debt and add a note on Cori's cycle.
17. Give an account of parathyroid gland and mention its hormonal disorders.
18. Draw a neatly labelled diagram of Immunoglobulin and state its function.
19. Describe Immunoglobulin G and its function.
20. Give an account of the cells of immune system.
21. Give an account on immunodeficiency disease.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Describe the respiratory disturbances and add a note on the physiological effects of smoking.
23. Explain in detail the nerve impulse production and propagation along the axon and the synapse.
24. Classify hormones and give a detailed account of the various hormones of the endocrine glands stating its function.
25. Describe Antigen - Antibody reactions and add brief notes on WIDAL, VDRL and ELISA tests.

(2×10=20)

