



QP CODE: 25050608



Reg No :

Name :

MSc DEGREE (CSS) EXAMINATION DECEMBER 2025

First Semester

M Sc BIOCHEMISTRY

Core Courses - BC010104 - HUMAN PHYSIOLOGY AND BIostatISTICS

2019 Admission Onwards

5B9C4310

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. Explain the action of lipases in digestion process.
2. Assess the importance of myosin head.
3. Define cardiac output. List the factors maintaining CO.
4. Define erythropoiesis. Add a note on the factors needed for erythropoiesis.
5. What is Rh factor? Give its importance.
6. Explain the role of kidney in homeostasis.
7. Name the muscles involved in inspiration.
8. What are proprioceptors?
9. What is meant by statistical population?
10. Analyse the use of Chi Square t test.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Differentiate between respiratory acidosis and respiratory alkalosis.
12. Explain the conducting mechanism of heart.
13. Explain lymph. How it is formed?
14. Describe the routes and site of reabsorption of water and electrolytes in nephrons.
15. Describe the factors affecting the percent saturation of Hb.





16. Explain the features of cyanosis.
17. Explain graphical representation of data.
18. Explain standard deviation and variance.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Describe the detailed structure of a neuron with function.
20. What is meant by voluntary muscles ? Discuss its structure and give examples.
21. Discuss the role of kidney in the maintenance of acid -base and electrolyte balance.
22. Illustrate and explain respiratory system.

(2×5=10 weightage)

