

**TB222310W**

**Reg. No : .....**

**Name : .....**

**B. Sc. DEGREE (C.B.C.S.) EXAMINATION, MARCH 2023**

**2022 Admissions Regular & 2021 Admissions Supplementary / Improvement And 2020, 2019 And 2018 Admissions  
Supplementary**

**SEMESTER II - CORE COURSE (HOME SCIENCE)**

**HS2B02B18 - HUMAN PHYSIOLOGY AND MICROBIOLOGY**

**Time : 3 Hours**

**Maximum Marks : 60**

**Part A**

**I. Answer any Ten questions. Each question carries 1 mark**

**(10x1=10)**

1. List functions of Golgi apparatus in the cell.
2. Define Cell.
3. Define Tidal Volume.
4. Define Stroke Volume.
5. Define Glomerular Filtration Rate.
6. What is meant by deglutition?
7. What are bacteriophages?
8. Define heterotrophs.
9. Differentiate between sterilisation and disinfection.
10. What is phagocytosis?
11. What are fomites?
12. What are pathogens?

**Part B**

**II. Answer any Six questions. Each question carries 5 marks**

**(6x5=30)**

13. Explain structure of the cell with the aid of a neat figure.
14. Explain the special junctional tissues of the heart.
15. Enumerate the properties of the cardiac muscles.
16. Explain the digestion and absorption of carbohydrates in the human body.
17. Explain the structure of the nephron with the aid of a neat figure.
18. Explain the ways in which dry heat is used to remove microbes.
19. Classify microbes and write a note on any two types.
20. What are the food sources and methods of prevention of Botulism poisoning?
21. Explain the primary defences of the body.

**Part C**

**III. Answer any Two questions. Each question carries 10 marks**

**(2x10=20)**

22. Explain the functional aspects of the different parts of the respiratory system.
23. Describe structure of the excretory system with a diagram.
24. Illustrate and describe the structure of the bacterial cell.
25. Immunity is acquired during the life span of an individual. Explain.