

TB242359S

Reg. No :

Name :

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2024

2023 ADMISSIONS REGULAR

SEMESTER II - CORE COURSE HOME SCIENCE

HS2C02B23 - Human Physiology and Microbiology

Time : 3 Hours

Maximum Marks : 60

Part A

I. Answer any Ten questions. Each question carries 1 marks

(10x1=10)

1. Recall the function of lysosome.
2. List functions of Golgi apparatus in the cell.
3. Define Stroke Volume.
4. Define Tidal Volume.
5. What is meant by menopause?
6. Enlist the parts of a nephron.
7. How is salting an effective method in food preservation?
8. State a unique feature of virus.
9. Differentiate between obligate and facultative aerobes.
10. What is a pandemic disease?
11. Define combined vaccine.
12. What is the DPT vaccine?



Part B

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

(6x5=30)

13. Explain the development of leucocytes.
14. Discuss the different blood groups based on the ABO system and Rh factor. What is transfusion incompatibility?
15. Explain the neural control of respiration.
16. Explain the physiology of lactation.
17. Explain structure of the kidney with a diagram.
18. Explain the ways in which dry heat is used to remove microbes.
19. Classify bacteria based on their oxygen requirement.
20. Describe the structure of AIDS virus and explain how it multiplies.
21. How can you prevent and control botulism infection?

Part C

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

(2x10=20)

22. Elaborate on internal and external respiration.
23. List functions of the kidneys and explain their role in maintaining homeostasis in the human body.
24. Explain the economic importance of bacteria.
25. Explain the causative organism, symptoms, mode of transmission of AIDS.