

**D 114578**

**(Pages : 2)**

**Name.....**

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

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, NOVEMBER 2024**

**(CBCSS)**

**Home Science (Nutrition and Dietetics)**

**HND1C01—HUMAN PHYSIOLOGY**

**(2019 Admission onwards)**

**Time : Three Hours**

**Maximum : 30 Weightage**

**Part A**

*Answer any **four** questions, each in one paragraph.  
Each question carries a weightage of 2.*

1. Describe the role of the spleen in the body.
2. List out the functions of bile salt.
3. Explain the functions of the kidney in maintaining acid-base balance.
4. Describe the mechanism of swallowing.
5. Discuss common neurological tests used to diagnose disorders.
6. List the different types of heart valves and their functions.
7. Explain blood coagulation and factors involved in the process.

**(4 × 2 = 8 weightage)**

**Part B**

*Answer any **four** questions, each within one page.  
Each question carries a weightage of 3.*

8. Explain the structure of a nerve cell and the process of nerve transmission.
9. Discuss the functions of the liver in digestion and metabolism.
10. Explain the hormonal regulation of blood calcium levels.
11. Describe the different techniques used to identify cardiovascular disorders.
12. Discuss the structure and functions of the urinary bladder.
13. Explain the different phases of the cardiac cycle.
14. Describe the process of conception and implantation.

**(4 × 3 = 12 weightage)**

**Turn over**

**Part C**

*Answer any **two** questions.  
Each question carries a weightage of 5.*

15. Explain the physiological changes during puberty in males and females.
16. Elaborate the component and its function of blood.
17. Discuss the physiology of the respiratory system, including control and mechanisms of respiration.
18. Explain the structure and functions of the pituitary gland and its role as the master gland.

(2 × 5 = 10 weightage)