

**F-1361**

**Sub. Code**

**7MHF1C3**

**M.Sc. DEGREE EXAMINATION, APRIL – 2024**

**First Semester**

**Home Science**

**APPLIED PHYSIOLOGY**

**(CBCS – 2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions

1. Define the term Homeostasis.
2. Briefly explain muscle fatigue.
3. Write short note on pineal body.
4. What is meant by asexual reproduction?
5. Mention the quantum of O<sub>2</sub> needed to oxidize macro nutrients.
6. Give a note on circadian rhythm.
7. Enumerate two functions of RBC.
8. List the constituents of urine.
9. Classify immunity with examples.
10. Write short note on hypothalamus.

**Part B**

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Explain the mechanism of muscle contraction.

Or

- (b) Give a note on, Body fluid compartment.

12. (a) List the functions of Thyroid gland.

Or

- (b) Briefly overview the female reproductive system.

13. (a) Write short note on partial pressure of oxygen.

Or

- (b) Enumerate the psychological factors affecting food intake.

14. (a) List the functions of plasma and serum.

Or

- (b) Explain in detail on urine formation.

15. (a) List the properties of immune system.

Or

- (b) Write short note on “Antigen-Antibody interaction”

**Part C**

(3 × 10 = 30)

Answer any **three** questions.

16. Discuss biochemical aspects of muscle tissue with reference to (a) structure and (b) chemical composition.
  17. Explain the various developmental stages of foetus.
  18. Highlight Anatomy and functions of Gastro Intestinal.
  19. Write an essay on the current development in cardiac condition.
  20. Enumerate the properties and features of immune responses, in a detailed manner.
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