

**M.Sc. DEGREE EXAMINATION, NOVEMBER 2018**  
**I Year I Semester**  
**CORE MAJOR-PAPER II**  
**ADVANCED HUMAN PHYSIOLOGY**

**Time : 3 Hours**

**Max.marks :75**

**Section A** ( $10 \times 2 = 20$ ) Marks

Answer any **TEN** questions

1. Brief the importance of Rh factor.
2. Write a note on organelles of cytoplasm.
3. What is Pulmonary Ventilation?
4. What is artificial pacemaker?
5. What is GFR?
6. Outline the stomach emptying process and factors affecting it.
7. List the vital functions of hypothalamus.
8. Write the functions of rods and cones.
9. Classify the hormones based on its chemical nature.
10. Write the stages of spermatogenesis.
11. What is taste transduction?
12. What are prostaglandins?

**Section B** ( $5 \times 5 = 25$ ) Marks

Answer any **FIVE** questions

13. Elaborate on blood coagulation mechanism.
14. Explain Mechanism of Respiration.
15. Write brief note on gastrointestinal hormones.
16. Explain the auditory pathway with suitable diagram.
17. Explain the luteal phase of menstrual cycle.
18. Give an account on micturition physiology.
19. How is heart rate regulated?

**Section C** ( $3 \times 10 = 30$ ) Marks

Answer any **THREE** questions

20. Explain cell cycle and cell mitosis.
21. Define Blood pressure and brief its regulation.
22. Explain the role of kidneys in maintaining acid base balance.
23. What is synapse? Explain the structure, function and properties of synapse.
24. Elaborate on synthesis, storage, release, transport, function and regulation of secretion of thyroid hormones.

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