

13UNDCT2003 - UND/CT/2003

B.SC. DEGREE EXAMINATION, APRIL 2018

I YEAR - II SEMESTER

Core Major- Paper III - HUMAN PHYSIOLOGY

Time : 3 Hours

Max.marks :75

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

Answer any **TEN** questions

1. What are stem cells?
2. Differentiate between prokaryotic and eukaryotic cell.
3. Define synapse.
4. What are Rods and cones?
5. Define cardiac output.
6. What are kupffer cells?
7. List the functions of pepsin in stomach.
8. Define vital capacity.
9. Write a note on reflex arc.
10. What is glomerular filtration rate?
11. Mention the hormones involved in lactation process.
12. Differentiate between cardiac and smooth muscle.

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

Answer any **FIVE** questions

13. Explain the different phases of mitosis?
14. Write a brief note on physiology of muscle contraction.
15. Give the composition and functions of blood.
16. Describe the mechanism of respiration with diagrammatic sketch.
17. Draw and explain the structure of kidney?
18. Explain menstrual cycle in detail?
19. Describe the physiology of vision.

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

Answer any **THREE** questions

20. Write a detailed note on classification and functions of Tissue.
21. Explain autonomic nervous system in detail.
22. Describe the events of cardiac cycle with diagrammatic sketch.
23. Enumerate the digestion and absorption process of carbohydrates.
24. Describe the structure, functions and regulation of hormones of pituitary gland.