

**First Year Bachelor of Occupational Therapy Regular/Supplementary  
Examinations September 2024  
Physiology  
(2020 Scheme)**

**Time: 3 Hours****Total Marks: 100**

- *Answer all questions to the point neatly and legibly* • *Do not leave any blank pages between answers*
- *Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together* • *Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay****(2x20=40)**

1. What is a synapse. Explain the mechanism of transmission across synapse. Explain any five properties of synapse.
2. Define haemostasis. Explain the steps involved in haemostasis in detail.

**Short Essays****(8x5=40)**

3. Define hypoxia. Explain different type of hypoxia with examples
4. Explain different phases of menstrual cycle
5. Explain events taking place in different phases of cardiac cycle
6. Functions of middle ear
7. Oxygen transport
8. Conductive System of Heart"
9. Define GFR. Explain the factors regulating GFR
10. Trace the pain pathway from left leg

**Short Notes****(10x2=20)**

11. Rouleaux formation
12. Write briefly about age related changes in muscle function
13. Functions of lymph
14. Difference between isometric and isotonic contraction
15. Functions of placenta
16. Reflex arc
17. Sarcotubular system of skeletal muscle
18. Functions of WBC
19. Features of UMN lesion
20. ABO blood group system

\*\*\*\*\*