

**First Year Bachelor of Occupational Therapy Regular/Supplementary  
Examinations September 2025**

**Physiology**

**(Common for 2020 and 2024 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. Explain regulation of respiration. Add a note on artificial ventilation
2. Explain the physiological actions of thyroid hormone. Add a note on hypothyroidism

**Short Essays**

**(8x5=40)**

3. Explain baroreceptor mechanism for regulation of blood pressure
4. Explain different contraceptive methods for females
5. Explain mechanism of active transport across cell membrane
6. What are the functions of cerebellum
7. Explain regulation of cardiac output
8. Draw and label Visual pathway
9. What is the innervation of bladder. Add a note on micturition reflex
10. Stretch reflex

**Short Notes**

**(10x2=20)**

11. Draw and label neuromuscular junction
12. Deglutition reflex
13. What are the mechanisms for adaptation to cold
14. Write four special features of renal circulation
15. Write briefly about respiratory changes during exercise
16. Erythrocyte sedimentation rate
17. Synaptic delay
18. Oxygen debt
19. Sarcomere of skeletal muscle
20. Milk ejection reflex

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