

**First Year Bachelor of Occupational Therapy Supplementary  
Examinations March 2025  
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. Define cardiac output, mention its normal value and describe how cardiac output is regulated in human body.
2. Describe the descending tracts and explain how voluntary motor activities are controlled in human body.

**Short Essays**

**(8x5=40)**

3. Erythropoiesis and factors affecting it.
4. Factors affecting endurance and muscle strength.
5. Disorders of thyroid hormone secretion.
6. Steps in formation of urine.
7. Factors affecting foetal growth.
8. Functions of leucocytes.
9. Transport of oxygen in body.
10. Mechanism of muscle contraction.

**Short Notes**

**(10x2=20)**

11. Functions of cerebellum
12. Oxygen debt.
13. Nerve action potential.
14. Contraception in males.
15. Importance of dietary fiber.
16. Functions of saliva.
17. Tetany.
18. Artificial ventilation.
19. Mucociliary transport in respiratory tree.
20. Fatigue.

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