

QP CODE: 102022

Reg. No:

**First Year Bachelor of Occupational Therapy Regular/Supplementary
Examinations December 2022**

Physiology

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. What is its normal value. Explain the regulation of cardiac output
2. With the help of a neat labelled diagram, explain the structure of neuromuscular junction. Discuss the mechanism of neuromuscular transmission. Add a note on myasthenia gravis

Short Essays

(8x5=40)

3. Transport of carbon dioxide in blood
4. Composition of pancreatic juice. Add a note on the regulation of secretion of pancreatic juice
5. Write any five physiological actions of thyroid hormone
6. Explain the factors regulating erythropoiesis
7. Define Glomerular Filtration Rate (GFR). Explain the factors affecting GFR
8. Spermatogenesis
9. Explain pain pathway with the help of a diagram
10. Functions of hypothalamus.

Short Notes

(10x2=20)

11. Dark adaptation
12. Conducting system of heart
13. Peristalsis
14. Facilitated diffusion
15. Functions of middle ear
16. Functional residual capacity and its significance
17. Role of skin in temperature regulation
18. Rh incompatibility
19. Actions of oxytocin.
20. Structure of a nephron
