

Q.P. Code: 122014

Reg. No.:.....

**First Year BPT Degree Regular/Supplementary Examinations
December 2024**

**Paper II – Physiology
(2016 Scheme)**

Time: 3 hrs

Max 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*

Essays

(2x15=30)

1. Define cardiac cycle. Explain the events in different phases of cardiac cycle with an illustrative diagram.
2. Describe in detail the steps involved in neuromuscular transmission with a neat labeled diagram. Add a note on Myasthenia gravis.

Short Essays

(4x10=40)

3. Describe the role of T-lymphocytes in immune mechanism.
4. Describe the visual pathway with the help of a neat labeled diagram and explain the effects of its lesions. Add a note on nyctalopia.
5. Describe the functions and regulations of pancreatic juice secretion.
6. Name the location of respiratory centres. Explain their role in the regulation of respiration. Add a note on periodic breathing.

Short Answers

(10x3=30)

7. Complications of blood transfusion.
8. Sodium-potassium pump.
9. Functions of hypothalamus.
10. Micturition reflex.
11. Actions of testosterone.
12. Decompression sickness.
13. List the GIT hormones. Explain the actions of any one hormone.
14. Sickle Cell Anemia.
15. Juxtaglomerular apparatus.
16. Functions of vestibular apparatus.
