

**First Year BPT Degree Supplementary Examinations June 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 arterial blood pressure. Discuss in detail about the regulation of arterial blood pressure. Add a note on Hypertension.
2. Name the ascending tracts. Describe the pain pathway. Add a note on referred pain.

**Short Essays**

**(4x10=40)**

3. Explain the transport mechanisms across the cell membrane.
4. Describe the role of chemo-receptors in the regulation of respiration.
5. Explain the composition, functions and regulation of gastric juice secretion in different phases.
6. Explain the countercurrent exchange system.

**Short Answers**

**(10x3=30)**

7. Functions of the middle ear.
8. Movements of the small intestine.
9. Dark adaptation.
10. Carbon dioxide transport.
11. Hypovolemic shock.
12. Actions of growth hormone.
13. Intra uterine contraceptive devices.
14. Haemophilia.
15. Cell mediated immunity.
16. Saltatory conduction and its significance.

\*\*\*\*\*