

First Year BPT Degree Supplementary Examinations June 2025
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. Explain in detail about the molecular mechanism of skeletal muscle contraction with a neat diagram.
2. Explain Regulation of Respiration. Add a note on hypoxia (10+5).

Short Essays

(4x10=40)

3. Describe the origin, course and termination of the pyramidal tract with a neat diagram. Add a note on differences between UMN and LMN lesions.
4. Explain the steps in formation of urine. Define GFR and explain factors regulating GFR. Add a note on renal clearance.
5. Describe the auditory pathway with a neat labeled diagram. List the tests for hearing. Add a note on conductive deafness.
6. Describe the uterine and ovarian changes during normal monthly menstrual cycle with their hormonal regulation. Write a note on pregnancy tests

Short Answers

(10x3=30)

7. Functions of saliva.
8. Acromegaly.
9. Active transport across cell membranes.
10. Refractive errors of the eye with corrections.
11. Erythroblastosis foetalis.
12. Artificial respiration.
13. Heart sounds
14. Functions of sertoli cells.
15. Explain the composition and functions of CSF.
16. Temperature regulation.
