

First Year BPT Degree Regular/Supplementary Examinations
January 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. Draw a diagram of spirogram. Explain lung volumes and capacities.
2. Enumerate the ascending tracts. Trace the pain pathway. Add a note on referred pain.

Short Essays**(4x10=40)**

3. Explain GFR. What are the factors affecting GFR. Write a note on micturition reflex.
4. Describe the uterine cycle and ovarian cycle of the monthly menstrual cycle with their hormonal regulation. Write a note on the pubertal changes seen in females.
5. Explain the synthesis and functions of thyroid hormones. Write a note on cretinism.
6. Describe hemostasis.

Short Answers**(10x3=30)**

7. Functions of gall bladder.
8. Explain cardiac output. What is its normal value.
9. Differences between smooth muscles and skeletal muscles.
10. Explain dead space.
11. Describe mitochondria.
12. Structure of Neuromuscular junction.
13. Cardiac changes during exercise.
14. Functions of the hypothalamus.
15. Properties of reflexes.
16. Explain nyctalopia.
