

First Year BPT Degree Regular/Supplementary Examinations
February 2022

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. Name the respiratory centres in brain. Explain the mechanism of regulation of respiration
(4+11=15)
2. Describe the events during cardiac cycle with a neat labelled diagram. Explain the waves of ECG.

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

3. Discuss the lung volumes and lung capacities with their normal values.
 Draw a neat and labelled spirogram
4. Name the descending tracts of spinal cord. Describe the origin, course and termination of pyramidal tract. Write a note on hemiplegia.
5. Describe the molecular mechanism of skeletal muscle contraction.
6. Discuss the lung volumes and lung capacities with their normal values.
 Draw a neat and labelled spirogram.

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

7. Describe the phases of gastric secretion.
8. Define Anaemia. List the types of Anaemia
9. Contraceptive methods in females
10. Functions of growth hormone.
11. List the functions of plasma proteins.
12. Describe erythropoiesis.
13. Describe micturition reflex.
14. Factors affecting cardiac output.
15. Explain facilitated diffusion.
16. Functions of the liver.