

First Year BPT Degree Examinations August 2017

Paper II – PHYSIOLOGY

(2016 Scheme)

Time: 3 hrs

Max marks: 100

- Answer all questions
- Draw diagrams wherever necessary

Essays

(2x15=30)

1. Name the ascending tracts. Describe the pain pathway. Add a note on referred pain
2. Discuss in detail the effects of exercise on:
 - Oxygen transport
 - Basal metabolic rats
 - Respiratory system
 - Muscle strength

Short Essays

(4x10=40)

3. Define receptor. Explain its classification and properties
4. Define Cardiac Output. Add a note on factors affecting Cardiac Output
5. Describe in detail the chemical regulation of respiration
6. Explain neuromuscular impulse transmission

Short Answers

(10x3=30)

7. Trace the taste pathway
8. Erythroblastosis foetalis
9. Describe micturition reflex
10. What is glomerular filtration rate and mention its normal value. List any two factors affecting glomerular filtration rate
11. Describe in detail the movements of small intestine
12. Name the errors of refraction. Add a note on its correction.
13. What is hypoxia. Name the cause for different types of hypoxia
14. List two differences between cortical nephrons and juxtamedullary nephrons
15. Intrauterine contraceptive device
16. Saltatory conduction and its significance