First Year B.Pharm Degree Supplementary Examinations, February 2016

HUMAN ANATOMY AND PHYSIOLOGY

(2012 - Scheme)

Time: 3 Hours

- Answer all Questions.
- Draw diagrams wherever necessary.

Essay

- 1. Describe the events involved in the contraction and relaxation of skeletal muscle fibers with a neat diagram. Add a note on Structure of bones.
- 2. Explain the structure and functions of cerebellum with the help of a neat, labeled diagram.
- 3. Describe the extrinsic and intrinsic pathways of blood-clotting cascade. Explain the principles behind blood group identification and consequences of blood group mismatching during blood transfusion.

Short notes

- 4. Draw an ECG. Describe the significance of various ECG intervals.
- 5. Functions of various steroids secreted by adrenal gland.
- 6. Process of oogenesis.
- 7. What is facilitated diffusion. Explain the transport of glucose through this process.
- 8. Structure of nephron.
- 9. Respiratory disorders induced by smoking.
- 10. Structure of pancreas and functions of glucagon.
- 11. Functions of oxytocin and vasopressin.
- 12. Anatomy of eye.
- 13. Bones of upper limb.
- 14. Role of HCl and pepsin in digestive process.
- 15. Functions of spinal cord.
- 16. Anatomy of blood vessels.
- 17. Physiological functions of parasympathetic activation.

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(3x10=30)

(14x5=70)

Total Marks: 100