First Year B.Pharm Degree Examinations - August 2014

(2012 - Scheme)

HUMAN ANATOMY AND PHYSIOLOGY

Time: 3 Hours

- Answer all Questions.
- Draw diagrams wherever necessary.

Essay

- 1. Describe the events of excitation and contraction coupling in the skeletal muscle
- 2. Explain the neural and hormonal mechanisms for regulation of blood pressure
- 3. Discuss the phases of action potential generation in the nervous tissue.

Short notes

- 4. Classify joints. Add a note on types of joint movements
- 5. Discuss the various blood groups in humans. Mention its significance in blood transfusion.
- 6. Draw a neat diagram of mitochondria. Summarize its function in the cellular respiration.
- 7. What is hemopoiesis. Narrate various steps involved in hemopoiesis.
- 8. Various types of blood cells with special emphasis on its structure and functions.
- 9. Mention various enzymes involved in digestion of carbohydrates. Explain its site of secretion, regulation and function.
- 10. Describe the various lung volumes and capacities.
- 11. Explain the process of tubular re-absorption.
- 12. Menstruation
- 13. Explain the synthesis, secretion, regulation and functions of insulin.
- 14. Describe the structure of spinal cord with the help of a diagram
- 15.List the importance of parasympathetic nervous system
- 16. Explain the physiology of hearing.
- 17. Discuss the functions of pancreatic hormones.

Total Marks: 100

(14x5=70)

Reg.No:

(3x10=30)