

**QP CODE: 114006**

**Reg. No: .....**

**First Year B.Pharm Degree Supplementary Examinations October 2018**

**Human Anatomy and Physiology**

**(2012 Scheme)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw diagrams wherever necessary.

**Essay**

**(3x10=30)**

1. Explain the anatomy of heart with a help of neat diagram. Explain the functions of bicuspid and tricuspid valves.
2. Name the hormones of thyroid and parathyroid glands. Explain their functions.
3. Explain the structure of spinal cord with a help of neat diagram. Add a note on reflex arc.

**Short notes**

**(14x5=70)**

4. Blood groups and its importance during blood transfusions.
5. Process of formation of urine.
6. Types of epithelial tissues and their function.
7. Functions of skin.
8. Functions of liver.
9. List various types of joints with examples
10. Lung volumes and lung capacities
11. Role of second messengers in neuro-humoral transmission
12. Electrophysiology of skeletal muscle contraction.
13. Explain the changes that may occur during sympathetic stimulation.
14. Gastrointestinal hormones
15. Structure of neuron.
16. Mechanism of blood coagulation
17. Structure and function of cerebellum.

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