

**QP CODE: 101326**

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

**First Year Pharm D Degree Examinations June 2017**

**Human Anatomy and Physiology**

**Time: 3 Hours**

**Total Marks: 70**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay**

**(3x10=30)**

1. Define cardiac output and list the factors affecting it. Explain the various mechanism of regulations of cardiac output.
2. Define cells and mention its components and their functions. What are epithelial tissue and classify them.
3. Describe the anatomy & physiology of mid brain and mention the functions of cerebellum.

**Short notes:**

**(8x5=40)**

4. Physiology of vision.
5. Muscle contraction mechanism.
6. Renin angiotensin system.
7. ECG.
8. Mechanism of urine formation.
9. Disorders of joints.
10. Explain the structure of spinal cord and mention components of reflex arc.
11. Mechanism of respiration.

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