

**First Year Pharm D Degree Examinations - August 2014**

**Human Anatomy and Physiology**

**Time: 3 Hours**

**Total Marks: 70**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay**

**(3x10=30)**

1. Describe the features of the skeletal, cardiac and smooth muscles with the help of diagrams. (1+3+3+3)
2. Define hemostasis. Describe the intrinsic and extrinsic blood coagulative pathways (1+9)
3. Define hormones. Classify them and explain its generalized cellular mechanisms of actions. (2+4+4)

**Short notes:**

**(8x5=40)**

4. Factors regulating the glomerular filtration rate
5. Contraceptive methods
6. Functions of lymph
7. Cardiac cycle
8. Physiology of olfaction and hearing
9. Dalton's law and its application in respiration
10. Signal transmission at chemical synapse
11. Functions of liver and gall bladder

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