

**I B.Pharmacy II Semester Supplementary Examinations, February 2013  
ANATOMY, PHYSIOLOGY & HEALTH EDUCATION-II**

**Time: 3 hours**

**Max Marks: 75**

**Answer any FIVE Questions  
All Questions carry equal marks**

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1. What is Landsteiner's law? Explain in detail about blood grouping systems. Describe about determination of blood group with neat labeled diagram. Add a note on importance of ABO groups in transfusion. [15]
2. What is blood coagulation? List out the clotting factors. Explain in detail about sequence of clotting with chart. [15]
3. Explain in detail about following  
(a) Cardiac output  
(b) Functions of heart  
(c) Systemic circulation [15]
4. Describe in detail about cardiac arrhythmias. [15]
5. (a) Describe the location & function of pharynx  
(b) Describe the location, anatomy, histology and function of oesophagus [8+7]
6. (a) Identify the organs of the digestive system  
(b) Describe the basic process performed by digestive system [8+7]
7. Write the following  
(a) Goitre  
(b) Graves disease  
(c) Acromegaly  
(d) Cushing's syndrome [4+3+4+4]
8. (a) Enumerate the corticosteroids. Describe the actions and regulations of secretion of aldosterone.  
(b) Describe in detail the regulation of blood sugar level [10+5]

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