

QP CODE:1326

Reg.No: .....

First Pharm D Degree Examinations - September 2011

### Human Anatomy and Physiology

Time: 3 Hours

Total Marks: 70

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Discuss the two mechanisms of respiration. Write an account of the factors affecting pulmonary ventilation. Describe briefly CO<sub>2</sub> & O<sub>2</sub> transported in blood.
2. Depict the gross anatomy of digestive tract. Explain the physiological actions of its anatomical parts

Write short notes:

(10x3=30)

3. Describe the functions of the lymphatic system
4. Give an account of the types of anaemia
5. Outline the properties of cardiac, skeletal and smooth muscles
6. Explain the properties of three important components of cell membrane
7. Describe the three principal mechanisms that control GFR
8. Elaborate the physiological actions of insulin
9. Discuss factors which increase and decrease clotting time
10. Describe the thyroid gland related disorders.
11. Explain the A, B, O, AB and Rh system of blood grouping
12. Write the differences between autonomic and somatic nervous system

Answer briefly:

(10x2=20)

13. List the phases of menstrual cycle
14. How do cardiac impulses travel.
15. What is the effect of athletic training on muscle and its performance.
16. Enumerate the various types of pain
17. Mention the functions of bone marrow
18. Describe two disorders of the eye
19. What is otitis media.
20. What is the salient feature of hyoid bone.
21. Why do chemical synapses relay signals slower than electrical synapses.
22. What happens to the properties of ABC in hypertonic and hypotonic saline.

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