

**HUMAN ANATOMY AND PHYSIOLOGY**

**(2010 - Scheme)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw diagrams wherever necessary.

**Essay**

**(3x10=30)**

1. Explain the structure of the kidney with a neat labeled diagram. Discuss the functions of kidney.
2. Describe the structure and functions of brain and spinal cord with neat labelled diagram.
3. Discuss male reproductive system in detail. Add a note on testosterone.

**Short notes**

**(14x5=70)**

4. Various stages of menstrual cycle.
5. Describe the mechanism of coagulation.
6. Physiology and functions of adrenal gland.
7. Explain the digestion of carbohydrates
8. Cranial nerves and their functions.
9. Enumerate the methods of resuscitation.
10. Define spermatogenesis and oogenesis with neat labeled diagram
11. Composition of lymph.
12. Explain ECG. What are the various heart sounds.
13. Various types of anemia.
14. Describe the anatomy and physiology of rods and cones.
15. Draw the structure of a human skin and give its functions.
16. Explain how the action potential is transmitted through a synapse with neat labeled diagram.
17. Physiology of cell membrane.