

## **2012 Scheme**

**QP CODE: 114006**

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

### **First Year B.Pharm Degree Supplementary Examinations September 2021 Human Anatomy and Physiology**

**Time: 3 Hours**

**Total Marks: 100**

- *Answer all questions to the point neatly and legibly* • *Do not leave any blank pages between answers* • *Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together* • *Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay**

**(3x10=30)**

1. Describe the process of erythropoiesis and factors affecting erythropoiesis.
2. Explain the structure and functions of kidney with mechanism of urine formation.
3. Define hormone. Classify the pituitary hormone and its functions. Give a note on hypothalamic controlling hormones.

**Short notes**

**(14x5=70)**

4. Define pinocytosis and phagocytosis. Explain the mechanism of pinocytosis.
5. Enlist the bones comes under axial skeleton.
6. What are the functions of medulla oblongata and pons
7. Explain the functions of insulin and glucagon.
8. Explain the composition of blood. Explain about plasma proteins.
9. Explain the composition of intestinal juice. Explain its role in digestion in details.
10. Name salivary glands and discuss the composition and functions of saliva.
11. Define the following:
  - Secondary hypertension
  - Atheroma
  - Varicose veins
  - Angina pectoris
  - Rheumatic fever.
12. Describe the structure of lymph node and its functions.
13. State the lung volumes and lung capacities.
14. Describe the structure and functions of cerebellum.
15. Draw a structure of eye. Describe the retinal layer.
16. Explain the epithelial tissues.
17. Explain the structure and functions of ovary.

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