

[LP 1505]

OCTOBER 2019

Sub. Code: 1505

**FIRST B.N.Y.S. DEGREE EXAMINATION**

**PAPER III – HUMAN PHYSIOLOGY - I**

*Q.P. Code : 821505*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Essays Questions:**

**(2 x 15 = 30)**

1. Define erythropoiesis. List the difference stages of erythropoiesis. Describe the changes, which take place in each stage and the factors necessary for erythropoiesis.
2. Define blood pressure. Describe the regulation and factors influencing blood pressure.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Explain homeostasis.
2. Describe the mechanism involved in blood coagulation.
3. Give an account of succus entericus.
4. Explain Juxtaglomerular apparatus.
5. Properties of cardiac muscle.
6. Artificial respiration.
7. Regulation of heart rate.
8. Short note on mitochondrion.
9. Functions of RBC.
10. Cell mediated immunity.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. What is dead space?
2. What is stroke volume?
3. What is stretch reflex?
4. What is surfactant?
5. What is the use of spirometer?
6. What is the main function of salivary amylase?
7. What is inspiratory reserve volume? Write the value.
8. What is the cause for pernicious anemia?
9. Write the types of white blood cells.
10. Define bulk flow.

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