

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BNYS 0124]

JANUARY 2024

Sub. Code: 1505

(JUNE 2023 / OCTOBER 2023 EXAM SESSIONS)

B.N.Y.S. DEGREE EXAMINATION

FIRST YEAR PART - II

(For the candidates admitted from the academic year 2011-12)

PAPER III – HUMAN PHYSIOLOGY I

Q.P. Code : 821505

Time: Three Hours

Answer ALL questions

Maximum : 100 Marks

I. Essays Questions:

(2 x 15 = 30)

1. Explain the clinical significance of heart sounds and add a note on cardiac Arrhythmias.
2. Explain in detail about the gastrointestinal hormone release and its functions.

II. Write notes on:

(10 x 5 = 50)

1. Neural regulation of respiration.
2. Short note on Golgi apparatus.
3. Note on mechanism of action of vasomotor center in the regulation of blood pressure.
4. Concentration of urine.
5. Explain the hemostasis in the body.
6. Describe the functions of plasma protein.
7. Oxygen-hemoglobin dissociation curve.
8. Factors regulating heart rate.
9. Cardiac murmur.
10. Note on lung volumes.

III. Short Answers on:

(10 x 2 = 20)

1. Define antibodies.
2. What is diapedesis?
3. What is apoptosis?
4. What are microtubules?
5. What is the rate of blood flowing to kidneys?
6. What is ejection fraction?
7. State the factors increasing the venous return.
8. What is vasovagal syncope?
9. What is the function of apneustic centre?
10. What is the action of surfactant?
