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

[AHS 1122]

NOVEMBER 2022

B.Sc. CRITICAL CARE TECHNOLOGY FIRST YEAR (Regulation 2018-2019)

PAPER II - PHYSIOLOGY + BASIC PHYSICS

Q.P. Code: 801242

Time: Three hours

Answer ALL Questions

I. Elaborate on:

- 1. Define Hemostasis. Describe the various stages involved in blood coagulation. Add a note on Hemophilia.
- 2. Name the Thyroid hormones. Discuss in detail, the secretion and functions of Thyroid hormone. Add a note on Grave's disease.
- 3. Describe the factors affecting the Hemodynamics.

II. Write Notes on :

- 1. Classification and functions of Leucocytes.
- 2. Factors affecting Cardiac output.
- 3. Heart Sounds and its causes.
- 4. Oxygen dissociation curve and factors affecting it.
- 5. Describe the properties that characterize three states of matter.
- 6. Contraceptive methods.
- 7. Errors of refraction and its corrections.
- 8. Renal Functional tests.

III. Short answers on:

- 1. Define Hypoxia and its types.
- 2. Functions of neuroglial cells.
- 3. Define Dalton's law and its application in Medicine.
- 4. Clinical uses of Arterial blood gas analyzers.
- 5. List the functions of large intestine.
- 6. Define cardiac cycle and name the ventricular events.
- 7. Types of medical gas cylinders.
- 8. Clinical uses of Erythrocyte Sedimentation Rate (ESR).
- 9. Define Vital capacity and its values.
- 10. List the functions of Blood.

105

Sub. Code: 1242

Maximum: 100 Marks

(8x5=40)

(10x3=30)

(3x10=30)