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

[AHS 1123] NOVEMBER 2023 Sub. Code: 1242

B.Sc. CRITICAL CARE TECHNOLOGY FIRST YEAR (Regulation 2018-2019 onwards) PAPER II - PHYSIOLOGY + BASIC PHYSICS

Q.P. Code: 801242

Time: Three hours Maximum: 100 Marks

Answer ALL Questions

I. Elaborate on: $(3 \times 10 = 30)$

1. Describe in detail the intrinsic pathway of Coagulation. Add a note on Hemophilia.

- 2. Describe the Transport of Oxygen in the Blood. Add a note on Hypoxia.
- 3. Draw a labelled diagram showing nerve supply to the Urinary Bladder. Explain the Micturition reflex.

II. Write Notes on : $(8 \times 5 = 40)$

- 1. Explain Hazards of Mismatched Blood Transfusion.
- 2. Explain Passive transport.
- 3. Describe the digestion of Fats.
- 4. Describe Heart sounds.
- 5. Describe the principle that govern fluid dynamics.
- 6. Describe functions of Insulin.
- 7. Write about a) Coulomb's Law b) Ohm's Law.
- 8. Explain the role of surfactant in Pulmonary Function.

III. Short answers on: $(10 \times 3 = 30)$

- 1. Classify Anemia.
- 2. Types of Colour blindness.
- 3. What is Gag reflex?
- 4. Two functions of Oxytocin.
- 5. Define Systolic Blood Pressure. What is the normal Blood Pressure in an Adult?
- 6. Write any three contraceptive methods in Males.
- 7. Liquid gas storage.
- 8. Draw a labelled diagram of ECG and what are the causes of P and Q waves?
- 9. Features of Cushing syndrome.
- 10. What is Bernouille's principle?
