

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

[AHS 1122]

NOVEMBER 2022

Sub. Code: 1131

B.Sc. OPERATION THEATRE & ANAESTHESIA TECHNOLOGY

FIRST YEAR (Regulation 2018-2019)

PAPER I – BASIC SCIENCES

Q. P. Code: 801131

Time: Three hours

Maximum : 100 Marks

Answer ALL Questions

I. Elaborate on: **(3 x 10 = 30)**

1. Define cardiac output. Explain the factors regulating cardiac output.
2. Describe in detail about the mechanism of regulation of blood pH.
3. Describe the Shoulder Joint under the following headings:
 - a) Articular surfaces
 - b) Ligaments
 - c) Relations
 - d) Muscles attached
 - e) Applied Anatomy.

II. Write notes on: **(8 x 5 = 40)**

1. Waves in ECG.
2. Structure and functions of Kidney.
3. Muscles of thorax.
4. Blood groups and Rh factor.
5. Cardiopulmonary Resuscitation.
6. Water soluble vitamins.
7. Phases of menstrual cycle.
8. Reversible and Irreversible Cell Injury.

III. Short answers on: **(10 x 3 = 30)**

1. Pleura.
2. Lysosomes.
3. Functions of Hemoglobin.
4. Basal metabolic rate.
5. Enumerate the bones of upper limb.
6. Role of bile in digestion.
7. Isoenzymes.
8. Cell death.
9. Define blood pressure.
10. Carcinogenic agents.
