

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

[AHS 0423]

APRIL 2023

Sub. Code: 1136

**B.Sc. OPERATION THEATRE AND ANAESTHESIA TECHNOLOGY
SECOND YEAR (Regulation 2018-2019 onwards)
PAPER I –PHARMACOLOGY AND MICROBIOLOGY
Q.P. Code: 801136**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Classify Anti-hypertensive drugs. Discuss the adverse effects and therapeutic uses of Beta blockers. Discuss the drug therapy of Hypertensive Emergency.
2. Classify Sterilization process. Describe the principle, mechanism and uses of Autoclave.
3. Define Local Anaesthesia. Explain the Mechanism of Action, Uses and Various Preparations of Lignocaine.

II. Write notes on:

(8 x 5 = 40)

1. Operation theatre Surveillance.
2. Biomedical Waste Management.
3. Personal Protective Equipment (PPE).
4. Commonly used Hospital disinfectants.
5. Angiotensin Converting Enzyme (ACE) Inhibitors-Mechanism of action and its uses.
6. Pharmacotherapy of status asthmaticus.
7. Pre-anaesthetic medication.
8. Hospital Acquired Infection.

III. Short answers on:

(10 x 3 = 30)

1. Five moments of Hand Hygiene.
2. Sterilization indicators.
3. Antibiotic Associated Diarrhea (AAD).
4. Define Tachyphylaxis. Give examples.
5. Enumerate the advantages in using Nitrous Oxide for general anesthesia.
6. Plasma half-life.
7. Name four Anti-Platelet drugs.
8. Enlist the advantages of Low Molecular Weight Heparin over conventional Heparin.
9. Inhalational Steroids.
10. Antihistamines and their therapeutic uses.
