GOVERNMENT OF KERALA DIRECTORATE OF MEDICAL EDUCATION **DOTAT COURSE REGULAR EXAMINATION MAY 2023 DOTAT-S-I-MAY 2023**

PAPER-I

BASIC SCIENCES INCLUDING PHARMACOLOGY (Answer Section A & B separately, draw diagrams wherever necessary)

SECTION –A

I. Write Short notes on : (10x5=50)

Max.marks: 100

- Anatomy of Brachial Plexus with diagram a.
- b. Liquid oxygen
- Where do you level and how do you zero an arterial line c.
- d. Vasopressin
- e. What is SpO₂? How is it measured?
- f. Define cardiac arrest. Explain BLS.
- Pasteurization g.
- h. Entonox
- i. Vecuronium
- j. Sphygmomanometer

SECTION-B

- II. Write shorts notes on:
 - a. Basic monitors used in anesthesia
 - b. Systemic circulation
 - c. Compare atropin and glycopyrolate
 - d. Drugs used in cardiac arrest
 - e. Blood products
 - f. Reversal agents used in general anesthesia
 - g. ASA grading
 - h. Morphine
 - i. Halothane
 - j. Oxygen Concentrator



(10x5=50)

Time -3hrs.

GOVERNMENT OF KERALA DIRECTORATE OF MEDICAL EDUCATION DOTAT COURSE REGULAR EXAMINATION-MAY 2023 DOTAT-S-II-MAY 2023

Time -3hrs.

PAPER-II

Max.marks: 100

BIOMEDICAL EQUIPMENTS

(Answer section A& B separately, draw diagrams wherever necessary) SECTION-A

I. Write short notes on :

- a. Describe with diagram parts of a typical endotracheal tube
- b. Advantages of ketamine over other intravenous induction agents
- c. ProSeal LMA
- d. Low-pressure systems in Boyle's anesthesia machine
- e. Circle system
- f. What are vaporizers? Characteristics of new vaporizers
- g. Hyperbaric oxygen
- h. 5 common complications after general anesthesia
- i. Defibrillator
- j. Safety features of Boyle's anaesthesia machine

SECTION-B

II. Write short notes on :

- a. Describe with diagram nasopharyngeal airway
- b. Ether
- c. Bain circuit
- d. Thorpe tube
- e. Mallapati classification
- f. Midazolam
- g. Describe Tuohy needle
- h. Electrocautery
- i. How will you sterilize OT after a biohazard case?
- j. Humidification equipment used in OT

(10x5=50)

(10x5=50)

GOVERNMENT OF KERALA DIRECTORATE OF MEDICAL EDUCATION DOTAT COURSE REGULAR EXAMINATION-MAY 2023 DOTAT-S-III-MAY2023

Time -3hrs.

PAPER-III

OPERATION THEATRE AND ANESTHESIA TECHNIQUES (Answer sections A & B separately, draw diagrams wherever necessary)

SECTION-A

I Write short notes on :

- a. Universal precautions in OT
- b. Scavenging system in OT
- c. Transducers used for monitoring patients under anesthesia
- d. Different modes of ventilation. Define PEEP
- e. How to set a theatre for anaesthetizing newborn baby
- f. Oxygen hood
- g. How will you collect blood for ABG analysis
- h. How will you set for central venous catheterization
- i. Lithotomy position
- j. 5 common immediate postoperative complications of general anesthesia.

SECTION B

II. Write short notes on:

- a. Venturi mask
- b. Sterilization of OT after biohazard case
- c. Describe briefly the working of the oxygen plant
- d. Basic monitors used in anesthesia
- e. Emergency intubation cart
- f. HFNO
- g. How will you set OT for an emergency LSCS
- h. Filling methods of vaporizers
- i. Laser resistant endotracheal tubes
- j. Tracheostomy tubes





(10x5=50)

Max.marks: 100