

GOVERNMENT OF KERALA DIRECTORATE OF MEDICAL EDUCATION DIPLOMA IN OPERATION THEATRE & ANESTHESIA TECHNOLOGY COURSE REGULAR & SUPPLEMENTARY EXAMINATIONS APRIL 2024 DOTAT-S-I-APR-2024

Time -3hrs. PAPER-I Max.marks: 100

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

SECTION -A

I. Write Short notes on :

(10x5=50)

- a. Anatomy of Tracheo Bronchial Tree
- b. Compare between Thiopentone sodium & Ketamine
- c. Desflurane
- d. Mallampatli Grading
- e. Bupivacaine
- f. Nitrous oxide
- g. Role of a technician in Radial Artery Cannulation
- h. HME Filter
- i. Colloids used in Operation Theatre
- j. Patient Warmer

SECTION-B

II. Write shorts notes on:

(10x5=50)

- a. Tramadol
- b. Blood grouping
- c. Femaral Artery Cannulation
- d. Anatomy of Sub arachnoid Space
- e. ETCO₂ monitoring
- f. Vapourizer
- g. Formation sterilization
- h. Midazolam
- i. Vediolaryngoscope
- j. Miller's Laryngoscope



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DOTAT-S-II-APR- 2024

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:

(10x5=50)

- a. Oesophageal Stethoscopy
- b. Enumerate different methods of blood pressure measurement. What is Sphygmomanometry.
- c. Name the different type of humidifiers and describe briefly heat and moisture exchanger.
- d. Complications of subclavian vein cannulation?
- e. Uses of pulmonary Artery Catheterisation.
- f. Enumerate different long volumes and capacities. Write shortly on FRC.
- g. Vaporisers with electronic control Enumerate and describe the parts.
- h. Function of a modern work station.
- i. Thermocouple
- **j.** Arterial blood gas analysis.

SECTION-B

II. Write short notes on:

(10x5=50)

- a. Co-oximetry
- b. Boyle's Law
- c.. Avogadro's Law
- d. Endobronchial Tubes
- e. Hazards in operation theatre
- f. Disadvantages of Double Lumen Tube
- g. Anesthesia Ventilators
- h. Soda lime
- i. Nasopharyngeal Airways
- j. Enumerate different methods of sterilization of anesthesia equipments.

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GOVERNMENT OF KERALA DIRECTORATE OF MEDICAL EDUCATION DIPLOMA IN OPERATION THEATRE AND ANAESTHESIA TECHNOLOGY REGULAR & SUPPLEMENTARY EXAMINATIONS APRIL 2024 DOTAT-S-III-APR-2024

Time -3hrs. PAPER-III Max.marks: 100

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

SECTION-A

I Write short notes on:

(10x5=50)

- a. Oxygen failure safety devices
- b. AMBU bag
- c. Prone position
- d. Oro/Nasal Air way
- e. Ryle's tube
- f. Antistatic techniques in anaesthesia equipments
- g. BLS algorithm
- h. Autoclave Techniques, what all organisms are destroyed by this method?
- i. TEC-6 vaporizer
- j. Isoflourane

SECTION B

II. Write short notes on:

(10x5=50)

- a. Suction apparatus
- b. Mechanism of Cautery machine Monopolar / Bipolar with the help of diagrams
- c. CO2 Cylinder Cylinder pressures, different uses. How is safe intra abdominal pressure maintained in laparoscopy?
- d. Non invasive Blood pressure monitoring setting the monitor for anaesthesia.
- e. Safety precautions in Laser treatment inside Operating room.
- f. Positioning of patients for Central line insertion
- g. Preparation for sending request for Arterial blood gas analysis-
- h. Sterilization of Fiber optic bronchoscope
- i. Advantage and disadvantage of Monopolar and Bipolar cautery in patients
- j. Filling systems in vapourisers