



**GOVERNMENT OF KERALA
DIRECTORATE OF MEDICAL EDUCATION
DIPLOMA IN RESPIRATORY TECHNOLOGY COURSE
REGULAR & SUPPLEMENTARY EXAMINATIONS APRIL 2024**

Time -3hrs.

**DR-S-I-APR-2024
Max.marks: 100**

**PAPER-I
BASIC SCIENCES, PULMONARY FUNCTION TESTS RESPORATORY THERAPEUTICS**

SECTION-A

I. Write Briefly on (5x10=50)

- a. Describe the muscles of inspiration
- b. Define and classify hypoxia
- c. Explain the neural regulation of respiration
- d. Classify bronchodilators
- e. Sterilization by heat

SECTION-B

II. Write Briefly on (5x10=50)

- a. Bronchodilator reversibility testing
- b. Explain the principle and clinical applications of pulse oximetry
- c. Describe the normal arterial blood gas values. Add a note on primary acid base disorders.
- d. Acceptable spirogram
- e. Elaborate on the patient preparation for spirometry

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PAPER-II

**(Airway management, Aerosolisation, Mechanical ventilation, Incentive Spirometry,
Pulmonary Rehabilitation & other Respiratory Therapy)**

SECTION-A

- I. Write Briefly on** **(5x10=50)**
- a. Airway suctioning
 - b. Postural drainage of upper lobes
 - c. Hyperbaric oxygen therapy
 - d. High flow oxygen delivery devices
 - e. Patient preparation for endotracheal intubation

SECTION – B

- II. Write Briefly on** **(5x10=50)**
- a. Define respiratory failure. Discuss the various types of respiratory failure
 - b. Setting up BiPAP ventilation in a COPD patient
 - c. Modes of weaning from mechanical ventilation
 - d. Ultrasonic nebulisers
 - e. AutoPEEP

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