



**GOVERNMENT OF KERALA
DIRECTORATE OF MEDICAL EDUCATION
DIPLOMA IN RESPIRATORY TECHNOLOGY COURSE REGULAR
EXAMINATION
MAY 2023**

**DR-S-I-MAY -
2023
Max.marks: 100**

Time -3hrs.

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

SECTION-A

I. Write Briefly on (5x10=50)

- a. Quality assurance in PFT lab
- b. Pre-analytical errors during arterial blood gas sampling
- c. Single breath Diffusion Capacity test
- d. Management of acute severe asthma
- e. Predicted normal values in Spirometry

SECTION-B

II. Write Briefly on (5x10=50)

- a. Diaphragm
- b. Types of hypoxia
- c. Tiotropium
- d. Chemical disinfection
- e. Static lung volumes and capacities.

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PAPER-II

**(Airway management, mechanical ventilation, incentive spirometry, aerosolisation,
pulmonary rehabilitation & other respiratory therapy)**

SECTION-A

- I. Write Briefly on** **(5x10=50)**
- a. Non invasive ventilation interfaces
 - b. Define Acute Respiratory Distress Syndrome (ARDS). List the causes of ARDS
 - c. Humidification during mechanical ventilation
 - d. Assist control ventilation
 - e. Spontaneous Breathing Trial

SECTION – B

- II. Write Briefly on** **(5x10=50)**
- a. Non Rebreather mask
 - b. Components of a pulmonary rehabilitation programme
 - c. Postural drainage of upper lobes
 - d. Metered Dose Inhaler
 - e. Oxygen cylinders

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