

[LJ 0816]

AUGUST 2016

Sub.Code :2613

**B.Sc. RESPIRATORY THERAPY**  
**SECOND YEAR**  
**PAPER III – DIAGNOSTIC TECHNIQUES IN CARDIO**  
**RESPIRATORY DISEASES**

*Q.P. Code: 802613*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Pressure Volume Loop – Theory behind its use for defining PEEP.
2. Obstructive Sleep Apnea – Diagnosis and Management.
3. Role of Arterial Blood Gas in a dyspneic patient in Emergency.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Define Techniques for performing Spirometry.
2. Role of Bedside ECHO in ICU.
3. Demonstration of Auto – PEEP from Ventilator Graphics.
4. Define Post Bronchodilator Reversibility.
5. Common difficulties while performing Pulmonary Function Testing.
6. Clinical Scenarios where Pulseoximetry is misleading.
7. What are the structures visualised on Chest X – ray?
8. When will you perform Diffused Lung Carbon Monoxide in a patient?

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Relevance of Chest X – Ray in 2016.
2. Epworth Scoring System for suspected Obstructive Sleep Apnea.
3. What are the advantages of Body Plethysmography over Simple Spirometry?
4. Define Residual Volume and how to detect Residual Volume?
5. What are the five common abnormalities diagnosed on seeing Electrocardiogram?
6. Define Forced Vital Capacity.
7. Parameters monitored in Treadmill Test.
8. Illustrate Peak Pressure and Plateau pressure in Pressure Time Graph.
9. Define Metabolic Acidosis and give some causes for same.
10. How do you detect Upper Airway obstruction by Flow Volume Loop?

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