

[LK 0217]

FEBRUARY 2017

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. Common causes for respiratory Acidosis and how do you manage them?
2. Draw subdivisions of Lung Volume Recorded by Spirometer and define each one.
3. Compare and Contrast Pros and Cons of Arterial Blood Gas and Pulseoximetry.

II. Write Notes on:

(8 x 5 = 40)

1. How do you define Obstruction by spirometry and Classify Severity?
2. Sleep Stages.
3. Importance of doing DLCO.
4. How does Continuous Positive Airway Pressure help in Obstructive Sleep Apnea?
5. Five common abnormalities what can be diagnosed on Chest X Ray.
6. How does Pulseoximetry Work?
7. When would you do contrast CT of chest?
8. Precautions in MRI.

III. Short Answers on:

(10 x 3 = 30)

1. What are the common mistakes while performing PFT?
2. Define FEV₁.
3. Define Maximal Voluntary Ventilation.
4. Define dead space and its components.
5. Draw FVC maneuver and label its components.
6. Pressure Time Graph in Volume Controlled Ventilation.
7. Draw Normal ECG and label its waves.
8. What is the physiological basis for doing Treadmill Test?
9. Define small airway and mention test to detect abnormality.
10. Advantages of finding Base Excess in ABG.
