

**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. Limited Channel Sleep study.
2. Pulse Oximetry.
3. Diffusion Capacity.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Role of Treadmill test in a patient presenting with off and on chest pain on climbing stairs.
2. Capnography.
3. Role of Chest X-ray in diagnosis the of Tuberculosis.
4. Enumerate and draw various kinds of Flow Volume loops in Spirometry.
5. Role of Respiratory drive in assessment of patient presenting with breathlessness.
6. FENO (Fraction of nitric oxide in expired air).
7. ECG monitoring in ICU / HDU.
8. Role of Echocardiography in patient presenting with breathing difficulty.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. AutoPEEP.
2. Chest X ray sings of Lobar Collapse.
3. Indications of MRI chest.
4. Two examples of Diagnostic utility of Chest Ultrasound in ICU.
5. ABG findings in Obesity hypoventilation syndrome.
6. ECG findings in a patient with Myocardial infarction.
7. Echocardiography findings in a patient presenting with Acute Pulmonary Embolism and low blood pressure.
8. Causes of Respiratory Alkalosis.
9. Use of PEFr in monitoring of Asthma.
10. Slow vital Capacity.

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