

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. Capnography and capnometry during mechanical ventilation.
2. Methacholine challenge test.
3. Enumerate and define different pulmonary function measurements obtained with spirometry.

II. Write Notes on:

(8 x 5 = 40)

1. Nocturnal pulse oxymetry.
2. CT thorax findings in patient with bronchiectasis.
3. Nitrogen washout technique.
4. Continuous positive airway pressure ventilation.
5. Six min walk test.
6. Residual volume.
7. Chest X ray findings in a case with lung cancer.
8. Epworth sleepiness scale.

III. Short Answers on:

(10 x 3 = 30)

1. Anion gap.
2. Chest X ray signs of pneumothorax.
3. Draw flow volume loops of spirometry in a patient with tracheal tumour.
4. Causes of metabolic acidosis.
5. Write an ABG findings showing type two respiratory failure.
6. Helium dilution technique.
7. CPAP compliance.
8. ABG in diabetic ketoacidosis.
9. Anatomical and physiologic dead space.
10. FEF 25% - 75%.
