

[AHS 0321]

MARCH 2021

Sub. Code: 2613

(AUGUST 2020 EXAM SESSION)

B.Sc. RESPIRATORY THERAPY

SECOND YEAR (Regulation 2014-2015)

PAPER III – DIAGNOSTIC TECHNIQUES IN CARDIO RESPIRATORY DISEASES

Q.P. Code : 802613

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Role of Spirometry in evaluation of a patient presenting with Breathlessness.
2. Body Plethysmography.
3. Limited Channel Sleep study.

II. Write Notes on:

(8 x 5 = 40)

1. Pulse Oximetry – Principle and Utility.
2. CT Pulmonary Angiogram findings in a case with Pulmonary Embolism.
3. Chest X ray findings in a case with Lung cancer
4. FRC.
5. Helium Dilution technique.
6. Bronchoprovocation test.
7. Airway pressure release ventilation.
8. PEF

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 2 Respiratory failure.
6. Apnea Hypopnea Index.
7. CPAP compliance.
8. ABG in Diabetic Ketoacidosis.
9. Anatomical and Physiologic dead space.
10. FEF 25% - 75%.
