

B.Sc. RESPIRATORY THERAPY

SECOND YEAR

PAPER IV – EQUIPMENTS IN RESPIRATORY CARE

Q.P. Code: 802614

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Spirometry – predictive reference values, interpretation and use in Patient care.
2. Limited Channel sleep study.
3. Thoracoscopy.

II. Write notes on:

(8 x 5 = 40)

1. FENO (Fraction of nitric oxide in expired air).
2. ECG monitoring in ICU / HDU.
3. Leak test in Bronchoscopy.
4. Endobronchial Ultrasound – indications and contraindications.
5. Cryoprobes for lung biopsy.
6. Tracheobronchial stents.
7. Body Plathysmography.
8. Chest tube drainage system for patient with Empyema and Bronchopleural fistula.

III. Short answers on:

(10 x 3 = 30)

1. Causes of Failure to record SpO₂ by Pulse Oximeter.
2. Diagnostic utility of Chest Ultrasound in ICU.
3. ABG findings in Obesity hypoventilation syndrome.
4. Nocturnal Pulse Oxymetry.
5. Steps in Disinfection of Bronchoscope.
6. How to minimize nosocomial infections in patient on Endotracheal tube.
7. Metered dose inhalers.
8. Double lumen Endotracheal tubes.
9. Stethoscope.
10. AMBU (Artificial Manual Breathing Unit).
