

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. Pulse Oxymeter – indications / utility in various respiratory disorders.
2. Types of Mechanical Ventilators and Ventilator output displays.
3. National Fire Protection Association and Compressed Gas Association Recommendations for Liquid Oxygen Systems – Bulk and Portable.

II. Write notes on:**(8 x 5 = 40)**

1. Variables affecting the fractional inspired oxygen concentration of low-flow oxygen systems.
2. Principles governing humidifier function.
3. Bronchoscopic forceps for Transbronchial lung biopsy.
4. Types of devices for Oxygen therapy.
5. Intercostal drainage Chest tubes.
6. How to detect persistent airleak in a patient with Pneumothorax and how to grade the severity of airleak?
7. Describe how to secure the Endotracheal tube and how to confirm correct placement?
8. Metered dose inhalers.

III. Short answers on:**(10 x 3 = 30)**

1. Simple Face Mask – Description and Working Principle.
2. Chest tube drainage system for Pneumothorax. Draw a diagram.
3. Describe Endotracheal suction equipment and procedure.
4. Pharyngeal airways.
5. Causes of Hydropneumothorax.
6. Zones of Peak Flow Meter.
7. Define Humidity Deficit.
8. Cleaning and sterilization of Thoracoscope.
9. Indications of Thoracoscopy.
10. Describe Flexible blade (McCoy blade) and its uses.
