

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0222]**

**FEBRUARY 2022  
(OCTOBER 2021 EXAM SESSION)**

**Sub. Code: 2204**

**M.Sc. RESPIRATORY THERAPY**

**FIRST YEAR (Candidates admitted from 2019-2020 & 2020-2021 onwards)  
PAPER IV – EQUIPMENT IN RESPIRATORY MEDICINE AND ADVANCED  
RESPIRATORY THERAPY AND CRITICAL CARE**

***Q.P. Code : 282204***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Define Oxygen therapy. Discuss various available methods of delivering Oxygen to the critically ill patients in ICU and the complications of Oxygen Therapy.
2. Mention the indications for artificial ventilation, Discuss briefly about the modes of mechanical ventilator and monitoring technique used in the patients on mechanical ventilator?

**II. Write Short Notes on:**

**(10x6 = 60)**

1. Write short notes on Nebulizers.
2. Discuss the parts of Ambu bag and its uses.
3. Name few Mucolytic agents and its mechanism of action.
4. Write short notes on Capnography.
5. Discuss briefly about the Medical gas pipelines in ICU.
6. Write a short notes on Chest Drain Systems.
7. Discuss the parts and the principles of Suction apparatus.
8. Write short notes on Multi Organ Dysfunction score.
9. Discuss the types of supraglottic Airway devices.
10. Write short notes on Bronchoscopes.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0522]**

**MAY 2022**

**Sub. Code: 2204**

**M.Sc. RESPIRATORY THERAPY**

**FIRST YEAR (Candidates admitted from 2019-2020 & 2020-2021 onwards)  
PAPER IV – EQUIPMENT IN RESPIRATORY MEDICINE AND ADVANCED  
RESPIRATORY THERAPY AND CRITICAL CARE  
*Q.P. Code : 282204***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

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**(10x6 = 60)**

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10. Write short notes on Bronchoscopes.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 1022]**

**OCTOBER 2022**

**Sub. Code: 2204**

**M.Sc. RESPIRATORY THERAPY  
FIRST YEAR (Candidates admitted from 2019-2020 & 2020-2021 onwards)  
PAPER IV –EQUIPMENTS IN RESPIRATORY MEDICINE & ADVANCED  
RESPIRATORY THERAPY & CRITICAL CARE**

***Q.P. Code : 282204***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Define respiratory failure. List the causes of Type II respiratory failure and how you would manage a patient with Type II respiratory failure?
2. Weaning and Extubation.

**II. Write Short Notes on:**

**(10x6 = 60)**

1. Positive End Expiratory Pressure.
2. Low flow oxygen delivery devices.
3. Draw the 3-bottle drainage system.
4. How will you clean and maintain ICU equipment?
5. Assessment of endotracheal cuff pressure and what pressure to set.
6. Percutaneous Tracheotomy.
7. Humidification.
8. Infection Prevention strategies.
9. Trouble shooting high airway pressure/ low pressure limitations alarm on ventilator.
10. MDI.

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