

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

[AHS 0321]

MARCH 2021

Sub. Code: 2203

(OCTOBER 2020 EXAM SESSION)

M.Sc. RESPIRATORY THERAPY

FIRST YEAR (From 2019-2020 onwards)

**PAPER III – APPLIED ASPECTS OF PHARMACOLOGY, MICROBIOLOGY
AND PATHOLOGY**

Q.P. Code : 282203

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. a) Define Pneumonia. Classify different types of pneumonia and pathogenic organisms causing pneumonia. Write the clinical features investigation and management of pneumonia. (2+6+6)
- b) Write notes on obstructive lung disease (6)
2. Elaborate the anomalies of lung and diaphragm. Classify benign and malignant lung lesions. Write notes on ventilators and ECMO.

II. Write Short Notes on:

(10x6 = 60)

1. Bronchodilators.
2. Emphysema.
3. Pleural effusion.
4. Bioterrorism.
5. Spirometry.
6. Role of corticosteroids in respiratory therapy.
7. Zeilneelson technique.
8. Cardiactamponade.
9. Importance of specimen collection technique of collection from ET tube, FOB, Thoroscope.
10. Antiviral drugs.

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

[AHS 0222]

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

Sub. Code: 2203

**M.Sc. RESPIRATORY THERAPY
FIRST YEAR (Candidates admitted from 2019-2020 & 2020-2021 onwards)
PAPER III – APPLIED ASPECTS OF PHARMACOLOGY, MICROBIOLOGY
AND PATHOLOGY
Q.P. Code : 282203**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. What is Sterilization? Elaborate different types of sterilization methods. Write notes on plasma sterilization with examples. Write notes on personal protective equipment.
2. Write notes on mycobacterium tuberculosis. Elaborate the pathological changes, clinical features, investigation to be carried out in case of pulmonary tuberculosis. Discuss in detail about the drugs used and their side effect.

II. Write Short Notes on:

(10x6 = 60)

1. Mast cell stabilizer.
2. Anti retroviral drugs.
3. Side effects of Rifampicin and INH.
4. Mucolytics.
5. Pulse oximeter.
6. Local Anaesthetics.
7. Drugs used in H1N1 infection.
8. Notes on acute and chronic inflammatory changes.
9. Inhalational corticosteroids.
10. Difference between reversible and irreversible cell injury.
