

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

[DM 0124]

JANUARY 2024

Sub. Code :1499

D.M. – PULMONARY MEDICINE

**PAPER IV – RECENT ADVANCES APPLIED TO PULMONARY MEDICINE
AND CRITICAL CARE**

Q.P. Code: 161499

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the role of genomic profiling in the targeted therapy of non-small cell lung cancer with emphasis on the diagnostic algorithm and therapeutic targets of various drugs. Describe immunotherapy in NSCLC.
2. Write a note on the different modes of lung biopsy available for diagnosis of interstitial lung diseases. Discuss their advantages and disadvantages.

II. Write notes on:

(10 x 7 = 70)

1. Write a note on the importance of phenotyping in precision medicine with COPD as an illustrative example.
2. Write a note on the recent advances in diagnostic bronchoscopy.
3. What is antibiotic stewardship? Discuss its importance in today's era.
4. Enumerate the molecular diagnostic methods for fungal infections. Discuss their clinical utility.
5. Influenza vaccine – types, indications and recommendations.
6. Discuss the newer advances in the management of malignant pleural effusions.
7. Discuss the recently published literature on the role of non-invasive ventilation in the management of heart failure.
8. Write a note on the current status of research in stem cell therapy for respiratory diseases.
9. Write a note on the respiratory infections caused by acts of bioterrorism.
10. Discuss Electronic nicotine delivery systems and their harmful effects. Write a note on Vaping induced lung injury.
