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**M.D. Respiratory Medicine
Examination, MAY 2018**

Paper First
BASIC SCIENCES

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt all questions. Draw well labeled diagrams wherever necessary.

1. Write in details about control of respiration, including respiratory centers in the brain, afferents & efferents to & from the respiratory muscles, different receptors in the lungs & chest wall & role of carotid bodies. [25]
2. What do you understand by "Acid base balance"? Explain different buffers in the body & their metabolism, role of lungs, kidneys & blood in maintaining acid base balance & what are the acute & chronic adaptations of lungs & kidneys to different types of acid base anomalies? [25]
3. Write short notes on-- [5x5]
 - a. FVC Graph
 - b. Importance of FRC
 - c. Closing volume
 - d. Diffusion capacity
 - e. 6- minute walk test
4. Write in detail the mechanisms of production of hypoxia, their impact on differential diagnosis & clinical correlation. How ECMO can help patients in critical situations? [25]

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**MD Respiratory Medicine
Examination, May 2018**

Paper Second
TUBERCULOSIS

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt all questions in given order.

1. Discuss recent changes made in RNTCP guidelines in India . [30]
2. Write about - [15×2=30]
 - a. Management of Miliary TB
 - b. Management of HIV& TB
3. Write short notes on-- [10x4]
 - a. Complications of BCG Vaccination
 - b. Line probe Assay
 - c. Role of medical colleges in TB control
 - d. ATT induced Hepatitis

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**MD Respiratory Medicine
Examination, May 2018**

Paper Third
Respiratory Medicine

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt any five questions.

1. Describe the following about lung cancer. [4×5=20]
 - a. Etiology
 - b. Histological Classification
 - c. Biology
 - d. Treatment & prognosis of non small cell & small cell lung cancer
2. What is composition of pleural fluid in health? Enumerate various causes of pleural effusion & mention criteria for differentiation between exudative & transudative effusion. [20]
3. Write the following about Bronchial Asthma: [4×5=20]
 - a. Current Definition
 - b. Pathogenesis
 - c. Natural history
 - d. Management
4. Describe various infectious & non-infectious respiratory tract complications of human immunodeficiency virus infection. [20]
5. Describe pulmonary manifestations of various systemic diseases. [20]

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**MD Respiratory Medicine
Examination, MAY 2018**

Paper Fourth

Recent Advances in Respiratory Medicine & Critical Care

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt all questions. Draw well labeled diagrams wherever necessary.

1. Discuss genetic basis of MDR-TB & its implementation in the diagnosis under PMDT. [25]
2. Describe fungal diseases of lung & management of fungal diseases in ICU. [25]
3. Write short notes on- [10×5]
 - a. D- dimer
 - b. Benralizumab
 - c. Management of Emphysematous Bulla
 - d. Liquid ventilation
 - e. Anion gap
