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**M.D. Respiratory Medicine
EXAMINATION, MAY 2017**

Paper First
BASIC SCIENCES

Time: Three Hours]

[Maximum Marks: 100

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

1. Discuss development of lung & congenital anomalies of lung. [16]
2. Write short notes on-- [8x3]
 - a. Broncho-Pulmonary segments
 - b. Bronchial Circulation
 - c. Closing Volume
3. Write short notes on-- [8x3]
 - a. Cough Reflex
 - b. High Altitude Physiology
 - c. Alpha 1 Antitrypsin deficiency
4. Describe following-- [12x3]
 - a. Diaphragmatic Hernia
 - b. Adenosine Deaminase Enzyme
 - c. Type 2 Respiratory Failure

Printed page (s): 1

Paper Code: MD-154

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**MD Respiratory Medicine
EXAMINATION, MAY 2017**

Paper Second
TUBERCULOSIS

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt all questions in given order.

1. Discuss genotypic & phenotypic methods to diagnose Pulmonary Tuberculosis. Discussion should include the advantages & disadvantages of each test. [30]
2. Write about - [15×2=30]
 - a. Classification & management of Non- tubercular mycobacteria
 - b. INDEX-TB guidelines
3. Write short notes on-- [10x4]
 - a. TB notification
 - b. Steroids in tuberculosis
 - c. Bedaquiline
 - d. Pre-treatment evaluation of a case of MDR tuberculosis

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**MD Respiratory Medicine
EXAMINATION, MAY 2017**

Paper Third
Respiratory Medicine

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt any five questions.

1. What do you know about different Alveolar Hemorrhage syndromes ?
Describe their symptomatology, diagnosis & management. [20]
2. Write an essay on systemic manifestations of lung diseases. [20]
3. What are physiological changes occurring in Respiratory system at high-altitude ? What are common respiratory disorders of high altitude & how will you manage them? [20]
4. What is COPD ? Write in details about- [5×4=20]
 - a. Definitions , classification & stages
 - b. Differential diagnosis
 - c. Pathophysiology & Pathological features
 - d. Management
5. Write in details on " acid-base balance" including [5×4=20]
 - a. What do you understand by "acid base balance" ?
 - b. How is the acid-base homeostasis maintained ? What is the role of lungs kidneys & blood in maintaining acid-base balance ?
 - c. What are the adaptations of lungs & kidneys to different types of acid-base anomalies ?
 - d. What are "mixed disorders" ?
6. Write an essay on Pulmonary hypertension. Describe pathological changes occurring in pulmonary hypertension, its classification, symptomatology, diagnosis & treatment. [20]

Printed page (s): 1

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**MD Respiratory Medicine
EXAMINATION, MAY 2017**

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. Write in detail regarding establishment of pulmonary rehabilitation programme. [20]
2. Write in detail about indications , contraindications & complications of lung transplant. [20]
3. Write short notes on- [10×3]
 - a. Newer drugs for PTB
 - b. Glycopyrronium
 - c. Medical Thoracoscopy
4. Write in brief - [10×3]
 - a. Brachytherapy
 - b. Roflumilast
 - c. Bronchoscopic drug volume reduction
