

**BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION
Third Year**

**Non-Semester Regulations and Eighth Semester
(Modified / New Modified Regulations)**

**Paper III - PHYSIOTHERAPY FOR CARDIO RESPIRATORY
DISEASES**

Q.P. Code : 745186

Time : Three hours

Maximum : 100 marks

Answer All questions

Draw suitable diagrams wherever necessary

I. Essays: (2 x 15 = 30)

1. Discuss the role of breathing exercise in physiotherapy management
2. Discuss the cardiac rehabilitation programme for 45 years old man following triple artery bypass graft after myocardial infarction.

II. Short Notes : (10 x 5 = 50)

1. Dead space and PT techniques- discuss
2. Cardiac catheterization
3. Glossopharyngeal respiration
4. Physiotherapy in the first 48 hours following coronary thrombosis
5. Bronchopulmonary segments – illustrate
6. Explain the types of Chest X-rays
7. Importance of acid-base analysis in respiratory disorders
8. Relaxation positions for dyspnea patients
9. Inter costal drainage
10. Auscultation of respiratory systems

III. Short Answer: (10 x 2 = 20)

1. What are the muscles used for inspiration and expiration?
2. What is pigeon chest?
3. Difference between huffing and coughing.
4. Why there is a fever in chest infection patients?
5. Draw coronary circulation.
6. When you will do endotracheal suctioning?
7. Define blood pressure.
8. Cyanosis
9. Acute Asthma
10. Manual Hyperinflation.

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I. Essays: **(2 x 15 = 30)**

1. Describe the PT management for a 35 yr. old male patient who has undergone right pneumonectomy.

2. Describe the etiology, pathology and clinical features of mitral stenosis. Discuss the physiotherapy management after mitral valve replacement surgery.

II. Short Notes : **(10 x 5 = 50)**

1. Role of PT in Atelectasis.
2. Fallot spell.
3. Eisenmenger's Syndrome.
4. Flow volume loop.
5. Autogenic drainage.
6. Cardiac asthma.
7. Forced expiratory technique.
8. Karronen's formula.
9. Aortic regurgitation.
10. Components of the ECG.

III. Short Answer: **(10 x 2 = 20)**

1. Explain the uses of bronchial tree.
2. Perceived exertion (Borg's) scale.
3. Tracheostomy.
4. Percussion and vibration.
5. What are the uses of breathing exercises?
6. Define Bronchial asthma.
7. Conducting system of the heart.
8. Cardiac tamponade.
9. What is kyphoscoliosis?
10. Six minute distance test.

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Answer All questions

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I. Essays: **(2 x 15 = 30)**

1. Discuss the assisted ventilation. Mention the types of ventilators and their indications in cardio thoracic surgery. Outline the process of weaning the patient from the ventilators.

2. Define postural drainage. Write down the indication and contraindication of postural drainage. Describe the drainage position of right upper lobe of the bronchial tree.

II. Short Notes : **(10 x 5 = 50)**

1. Clubbing.
2. Pursed lip breathing.
3. Factors increasing the systolic blood pressure.
4. Aspiration pneumonia.
5. Humidifiers.
6. Exercise induced asthma.
7. Transpositions of great vessels.
8. Treadmill test.
9. Segmentectomy.
10. Fracture rib.

III. Short Answer: **(10 x 2 = 20)**

1. Indications for shoulder exercises.
2. Draw lung and label its parts.
3. Why physiotherapists should train breathing exercise during walking.
4. How forward lean standing will relax the patient.
5. What are the benefits of postural correction techniques after pulmonary surgery?
6. What is the need to read ECG of myocardial infarction patient before Physiotherapy treatment?
7. Define blood pressure.
8. Cyanosis.
9. Abnormal breath sounds.
10. Glosso pharyngeal breathing exercises.

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Q.P. Code : 745186

Time : Three hours

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ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary

I. Essays:

(2X15=30)

1. Discuss the principles of Cardiac Rehabilitation for Myocardial Infarction.
2. How does Ankylosing Spondylitis affect the respiratory system? Describe the management of a 25 years old male suffering from Ankylosing Spondylitis and add a home program.

II. Short Notes :

(10X5=50)

1. Explain Muscles of Respiratory System.
2. Give a note on Physiotherapy treatment plan & management of status Asthmaticus.
3. Chest X-Rays.
4. Pulmonary Function Test.
5. Describe exercise for Breathless patients.
6. PT management following Mastectomy.
7. Hiatus Hernia.
8. Modified Postural Drainage.
9. Cough reflex and mechanism.
10. Tetralogy of Fallot.

III. Short Answers:

(10X2=20)

1. How will you assess Chest movements?
2. What is Pigeon Chest?
3. Draw Coronary Circulation.
4. Cor-Pulmonale.
5. Anatomical dead space.
6. Classification of Congenital Heart Disease.
7. Paradoxical breathing.
8. Six minute distance test.
9. Percussion and vibration.
10. Difference between Huffing and Coughing.
