

[KM 920]

Sub. Code : 5163

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Fifth/Seventh Semester

(Revised Regulations/Transitory/Modified Regulations)

Paper III — CARDIO RESPIRATORY DISEASE FOR
PHYSIOTHERAPIST

(CLINICAL CARDIO RESPIRATORY DISEASES)

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions :

(2 × 15 = 30)

(1) Describe the anatomy of the interventricular septum. Classify ventricular septal defects and discuss the hemodynamic changes.

(2) Outline briefly principles of various ventilators and discuss the uses of ventilators.

II. Short notes :

(10 × 5 = 50)

- (a) Patent Ductus Arteriosus.
- (b) Positive End Expiratory Pressure (PEEP).
- (c) Mention the components of Tetralogy of Fallot. Describe the palliative treatment for the same.
- (d) Transventricular Mitral commissurotomy.
- (e) A-V malformations.
- (f) Prosthetic heart valves.
- (g) Bronchiectasis sicca.
- (h) Median Sternotomy.
- (i) Post Extubation Care.
- (j) Anatomy of coronary arteries.

February-2005

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II. Short notes :

(10 × 5 = 50)

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Seventh Semester

(New Modified Regulations)

Paper III — CARDIO RESPIRATORY DISEASE FOR
PHYSIOTHERAPIST
(CLINICAL CARDIO RESPIRATORY)

Time : Three hours

Maximum : 100 marks

Theory : Two hours and forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions : (2 × 15 = 30)

(1) Enumerate the causes of aortic regurgitation. Discuss the clinical features and treatment.

(2) Discuss the etiology of empyema and its treatment including intercostal drainage, Decortication and window operation.

(a) Massive Hemoptysis

(b) Management of flail chest.

(c) Classification and treatment of atrial septal defect.

(d) Surgery for coronary artery disease.

(e) What is coarctation of aorta. Discuss the management.

(f) Weaning the patient from ventilator.

(g) Median sternotomy.

(h) Hemodynamics of mitral regurgitation.

(i) Blood supply of the heart.

(j) Pulmonary stenosis.

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(Revised Regulations/Transitory/Modified Regulations)

**Paper III — CARDIO RESPIRATORY DISEASE FOR
PHYSIOTHERAPIST**

(CLINICAL CARDIO RESPIRATORY DISEASES)

Time : Three hours	Maximum : 100 marks
Theory : Two hours and forty minutes	Theory : 80 marks
M.C.Q. : Twenty minutes	M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

Essay questions : (2 × 15 = 30)

**(1) Outline the principles involved in cardio
vascular stress testing.**

**(2) Discuss the clinical features and
management of Bronchiectasis and lung abscess.**

II. Short notes :

(10 × 5 = 50)

- (a) Broncho-pulmonary segments.
 - (b) Blood supply of heart.
 - (c) Fracture rib.
 - (d) Inter costal drainage.
 - (e) Post-operative management of
pneumonectomy.
 - (f) Cough reflex.
 - (g) Ventricular septal defect.
 - (h) Factors affecting diffusion of oxygen and
carbon di oxide in the lung.
 - (i) Kyphoscoliosis.
 - (j) Normal ECG.
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BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Seventh Semester

(New Modified Regulations)

Paper III — CARDIO RESPIRATORY DISEASE FOR
PHYSIOTHERAPIST

(CLINICAL CARDIO-RESPIRATORY)

Time : Three hours Maximum : 100 marks
Theory : Two hours and Theory : 80 marks
 forty minutes
M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw Suitable diagrams wherever necessary.

I. Essay Questions : (2 × 15 = 30)

(1) Briefly describe Pulmonary function tests and their use.

(2) Discuss the clinical features and management of Tetralogy of Fallot.

II. Short notes : (10 × 5 = 50)

- (a) Cervical rib.
 - (b) Bucket handle and pump hand movements of thorax.
 - (c) Atrial Septal defects.
 - (d) Decortication and window operation.
 - (e) Trachcostomy.
 - (f) Indications for Open Heart Surgery.
 - (g) Types of Ventilator.
 - (h) Pre-operative assessment of a patient posted for Thoracotomy.
 - (i) Destroyed lung.
 - (j) Physiological control of respiration.
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**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Seventh Semester

(New Modified Regulations)

Paper III — CARDIO RESPIRATORY DISEASE FOR PHYSIOTHERAPIST

(CLINICAL CARDIO - RESPIRATORY)

Time : Three hours **Maximum : 100 marks**

Theory : Two hours and forty minutes **Theory : 80 marks**

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions : (2 × 15 = 30)

(1) Describe in detail the etiology, clinical features and management of chronic bronchitis. Enumerate the various physiotherapy modalities in rehabilitation of the symptomatic person with chronic bronchitis.

(2) Draw the anatomy of coronary arteries. Discuss in detail the management of acute myocardial infarction.

II. Short notes : (10 × 5 = 50)

- (a) Kyphoscoliosis.
- (b) Mitral stenosis.
- (c) Surgical treatment for empyema.
- (d) Lung function test.
- (e) Pulmonary embolism - diagnosis and management.
- (f) Basic life support.
- (g) Etiology, risk factors and cell types in Bronchogenic carcinoma.
- (h) Oxygen therapy.
- (i) Clinical features of congestive heart failure.
- (j) Diagnosis and treatment of pulmonary tuberculosis.

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EXAMINATION.**

Seventh Semester

(New Modified Regulations)

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PHYSIOTHERAPIST**

(CLINICAL CARDIO RESPIRATORY DISEASES)

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions :

(1) Briefly outline the pathogenesis of Bronchial Asthma. Discuss in detail the management of acute severe asthma. (20)

(2) Define unstable angina. Briefly discuss the risk factors, pathogenesis, investigations and management of coronary artery disease. (15)

(3) Discuss the principles of cardio vascular stress testing. (15)

II. Short notes :

(6 × 5 = 30)

- (a) Management of Bronchiectasis
 - (b) Hazards of smoking
 - (c) Surgical treatment for Tetralogy of fallot
 - (d) Flail chest
 - (e) Cor-pulmonale
 - (f) Modes of ventilators.
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**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Seventh Semester

(New Modified Regulations)

Paper III — CARDIO RESPIRATORY DISEASE FOR PHYSIOTHERAPIST

(CLINICAL CARDIO RESPIRATORY DISEASES)

Time : Three hours **Maximum : 100 marks**

Theory : Two hours and forty minutes	Theory : 80 marks
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M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions :

(1) Describe Angina Pectoris? Discuss in detail about the Etiology, Signs and symptoms, Investigation and Management of Acute Myocardial Infarction. (20)

(2) Define post operative pulmonary complication? How does pulmonary function changes post operatively? What are the techniques to improve secretion clearance from lower respiratory tract? (15)

(3) Discuss in detail about Recent Trends in Cardio Pulmonary Resuscitation (CPR). (15)

II. Short notes on the following : (6 × 5 = 30)

- (a) Chemical regulation of respiration.
- (b) Patent Ductus Arteriosus.
- (c) PANCOAST'S TUMOR.
- (d) Broncho-Pulmonary Aspergillosis.
- (e) Obesity Hypoventilation syndrome.
- (f) Beta Blockers.

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**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

**Third Year Non Semester Regulations &
Seventh Semester**

(New Modified Regulations)

**Paper III — CARDIO RESPIRATORY DISEASE FOR
PHYSIOTHERAPIST**

(CLINICAL CARDIO RESPIRATORY DISEASES)

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions : (2 × 15 = 30)

(1) What is systemic hypertension? Discuss in detail about the etiology, signs and symptoms, management and complications of systemic hypertension.

(2) What is bronchial asthma? Discuss in detail about etiology, signs and symptoms, and management of bronchial asthma. Discuss about pulmonary function test in bronchial asthma.

II. Short notes on :

(10 × 5 = 50)

- (a) Angina
- (b) Ventricular septal defect
- (c) Cardiac tamponade
- (d) Cardio pulmonary resuscitation
- (e) Acute pulmonary edema
- (f) Deep vein thrombosis
- (g) Chronic bronchitis
- (h) Aspiration pneumonia
- (i) Pneumothorax
- (j) Positive end expiratory pressure.

FEBRUARY 2008

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**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

**Third Year Non-Semester Regulations and
Seventh Semester**

(New Modified Regulations)

**Paper III — CARDIO RESPIRATORY DISEASE FOR
PHYSIOTHERAPIST**

(CLINICAL CARDIO RESPIRATORY DISEASES)

Q.P. Code : 745183

Time : Three hours Maximum : 100 marks
Theory : Two hours and Theory : 80 marks
forty minutes
M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw Suitable diagrams wherever necessary.

I. Essay : (2 × 15 = 30)

**(1) What is spirometry? Describe in detail about
pulmonary function tests. Give five examples of
restrictive lung diseases and its clinical correlations.**

**(2) What is Myocardial infarction? Describe
etiology, pathogenesis, clinical features and
management of acute myocardial infarction.**

II. Short notes on the following : (10 × 5 = 50)

- (1) Oxygen therapy**
- (2) Atrial septal defect**
- (3) Cervical rib**
- (4) Sleep apnea**
- (5) Cardiac cycle**
- (6) Pulmonary embolism**
- (7) Frusemide**
- (8) Congestive cardiac failure**
- (9) Pleural effusion**
- (10) Continuous Positive Airway Pressure
(CPAP).**

AUGUST 2008

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**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

**Third Year Non-Semester Regulations and
Seventh Semester**

(New Modified Regulations)

**Paper III — CARDIO RESPIRATORY DISEASES FOR
PHYSIOTHERAPIST**

(CLINICAL CARDIO RESPIRATORY DISEASES)

Q.P. Code : 745183

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

- I. Long Essay : (2 × 15 = 30)**
- 1. Define Hypertension. Discuss about the aetiology pathophysiology. Investigation and management of Hypertension. Add a note on physical therapy intervention in hypertensive heart disease.**

 - 2. Define Bronchiectasis. Discuss in detail about the aetiology, pathogenesis, clinical features and management including physiotherapy of Bronchiectasis.**

AUGUST 2008

II. Write short notes : (10 × 5 = 50)

1. Coronary artery bypass graft
2. Pulmonary function test
3. Fallots tetralogy
4. Deep vein thrombosis
5. Chronic constrictive pericarditis
6. Status asthmaticus
7. Different modes of ventilators
8. Arterial blood gas analysis
9. Basic life support
10. Aetiology and common cell type of bronchogenic carcinoma.

III. Write short answers : (10 × 2 = 20)

1. Trace the ECG and label.
2. Mention the accessory muscles that are involved in respiration
3. What is meant by respiratory acidosis?

4. Enumerate major manifestation Jones criteria for the diagnosis of rheumatic fever.

5. What is the difference between intrinsic and extrinsic asthma?

6. What is meant by Ghon complex?

7. What is Raynords phenomenon?

8. What is the use of Positive End Expiratory Pressure (PEEP) in the ventilator modes?

9. Name the Biochemical Markers (Enzymes) are most widely used to detect myocardial infarction.

10. What is the importance of Six Minute Walk Test?