

November-1993

[PR 644]

**Bachelor of Physiotherapy
Degree Examination**

(New Regulations)

Fifth Semester

**Paper-III—CARDIORESPIRATORY DISEASES
FOR PHYSIOTHERAPIST**

Time : Three hours

Maximum : 100 marks

1. Describe the mechanism of respiration. Outline the physiotherapy care of respiration in high cervical cord injury. [20]
2. Mention the complications of Thoracotomy-what are all the preventive measures to avoid such complications. [20]
3. Briefly outline the management of a patient during convalescent stage following myocardial infarction. [20]

4. Write notes on the following .

- (a) Blood gas analysis
- (b) Treadmill
- (c) Bradycardia
- (d) Language boards
- (e) Tracheostomy
- (f) MET
- (g) Defibrillators
- (h) Paradoxical breathing

(40)

[ND 803]

**Bachelor of Physiotherapy
Degree Examination**

Fifth Semester

(New Regulations)

**CARDIO-RESPIRATORY DISEASES - FOR
PHYSIOTHERAPISTS**

Time: Three Hours Max. Marks 100

Answer all questions

All questions carry equal marks

1. A 52 year old man was admitted to the coronary care unit following a MYOCARDIAL INFARCT and now moved to the main General ward as four days post Infarct as the cardiac condition is stable. How would you progress this patient's treatment from now until discharge. What precautions / observations should be taken throughout the treatment programme ?
2. A 50 year old man underwent CORONARY ARTERY BYPASS GRAFT SURGERY one day ago. He has now been extubated. Discuss your assessment, aims, treatment and home advice.
3. Describe in detail the appropriate pre and post-operative physiotherapy for a patient who is admitted to hospital for PNEUMONECTOMY for CARCINOMA affecting the left lung, giving reasons for the procedures selected.

4. Write short notes on :

- a) Suction
- b) Flail chest
- c) Paradoxical breathing
- d) Inter-costal Drainage

5. Write short notes on :

- a) Haemoptysis
- b) Ventilators
- c) Deep vein thrombosis
- d) Chronic obstructive airways disease.

[MB 920]

**Bachelor of Physiotherapy
Degree Examination**

(New Regulations)

Fifth Semester

Paper III - CARDIO-RESPIRATORY DISEASES FOR
PHYSIOTHERAPISTS

Time : Three hours

Max : 100 marks

Answer All questions

All questions carry equal marks

- 1 Name the muscles of respiration including the accessory muscles and explain the mechanics of respiration.
- 2 How would you perform a physical evaluation of a pulmonary patient. Enumerate the goals of chest physical therapy.
3. What do you understand by Ischaemic Heart Disease ? Enumerate the causes, signs, symptoms and appropriate physiotherapy management of a patient suffering from myocardial infarction.

4. Write short notes on :

- a) Patent Ductus Arteriosus
- b) Mitral stenosis
- c) Factors affecting lung compliance and airway resistance.
- d) Cardio pulmonary resuscitation

5. Write briefly on :

- a) Thoracotomy
- b) Cough reflex
- c) Empyema
- d) Fallot's tetralogy

April - 1996

[AK 923]

Bachelor of Physiotherapy Degree Examination
(Revised Regulations)
Fifth Semester

**Paper III - CLINICAL CARDIO
RESPIRATORY DISEASES**

Time : Three hours. Maximum : 100 marks.

Answer Sections A and B in separate answer books.

SECTION - A

1. Answer any ONE of the following in detail :
 - a) Pre and postoperative physiotherapy management of a 45 years old man admitted for open heart surgery.
 - b) Management of a 65 years old man after myocardial infarction. (14)
2. Answer briefly on any TWO of the following :
 - a) Mechanism of regulation of blood pressure
 - b) Electrocardiogram
 - c) Cardiac cycle (2 × 8 = 16)
3. Write short notes on any FIVE of the following :
 - a) Intermittent claudication
 - b) Atherosclerosis
 - c) Cardiac arrest
 - d) Fallot's tetralogy
 - e) Mitral stenosis
 - f) Clubbing
 - g) Pericarditis (5X4 = 20)

SECTION—B

1. Answer any ONE of the following in detail :
 - a) Physiotherapy management of a patient with obstructive airway disease
 - b) Role of physiotherapist in management of pulmonary tuberculosis. (14)
2. Answer briefly on any TWO of the following :
 - a) Pulmonary function tests
 - b) Neural control of respiration
 - c) Pneumothorax (2X8=16)
3. Write short notes on any FIVE of the following :
 - a) Lobectomy
 - b) Movement of Thorax
 - c) Kyphosis
 - d) Paradoxical breathing
 - e) Ventilators
 - f) Barrel chest
 - g) Thoracoplasty (5X4 = 20)

[PK 912]

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION.

Fifth Semester

(Revised Regulations)

Paper III — CLINICAL CARDIO-RESPIRATORY DISEASES

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A — (50 marks)

1. Write an essay on any ONE of the following : (1 × 14 = 14)

(a) What do you understand by open heart surgery? Mention the cardiac diseases which are operated under this procedure? Discuss the common complications to be managed by physiotherapists in open heart surgery.

(b) Outline the management of a patient after a myocardial infarct.

2. Write brief answers on any TWO of the following :

(2 × 8 = 16)

(a) Congenital acyanotic heart diseases

(b) Coronary circulation.

(c) P, Q, R, S and T waves in a normal ECG.

3. Write short notes on any FIVE of the following : (5 × 4 = 20)

(a) Collapsing pulse.

(b) Peripheral cyanosis.

(c) Bioprosthetic valves.

(d) Cardiomyopathy.

(e) Bradycardia.

(f) Apical impulse.

(g) Tread mill test.

[PK 912]

SECTION B — (50 marks)

4. Write an essay on any ONE of the following : (1 × 14 = 14)

(a) Describe the aetiology, clinical features, medical and physiotherapeutic management of Bronchiectasis.

(b) Discuss the assisted ventilation. Mention the types of ventilators and their indications in cardiothoracic surgery. Outline the process of weaning the patient from the ventilators.

5. Write brief answers on any TWO of the following :

(2 × 8 = 16)

(a) Causes of empyema and its treatment.

(b) Complications of pneumonectomy.

(c) Cor pulmonale and its management.

6. Write short notes on any FIVE of the following : (5 × 4 = 20)

(a) Haemoptysis.

(b) Bronchopleural fistula.

(c) Stove-in chest.

(d) Tension pneumothorax.

(e) Respiratory acidosis.

(f) Bronchoscopy.

(g) Oxygen toxicity.

[PK 928]

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION.

Fifth Semester

(New Regulations)

**Paper III — CARDIORESPIRATORY DISEASES FOR
PHYSIOTHERAPIST**

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A — (50 marks)

1. Write an essay on any ONE of the following : (1 × 14 = 14)
 - (a) Discuss the risk factors, clinical features, complications and physiotherapeutic management of myocardial infarction.
 - (b) Discuss the various types of congenital chest wall anomalies and problems affecting the patients' cardiac status.
2. Write brief answers on any TWO of the following : (2 × 8 = 16)
 - (a) Complications and management of hypertension.
 - (b) Intensive coronary care unit. (ICCU)
 - (c) Atrial septal defect. (ASD)
3. Write short notes on any FIVE of the following : (5 × 4 = 20)
 - (a) Transposition of great vessels.
 - (b) Effort tolerance.
 - (c) Cardiac syncope.
 - (d) Atrial fibrillation.
 - (e) Dextrocardia.
 - (f) Pulsus paradoxus.
 - (g) Cardiac neurosis.

[PK 928]

SECTION B — (50 marks)

4. Write an essay on any ONE of the following : (1 × 14 = 14)
 - (a) Discuss the aetiology, clinical features and management of lung abscess.
 - (b) Describe the types, clinical features and management of bronchogenic carcinoma.
5. Write brief answers on any TWO of the following : (2 × 8 = 16)
 - (a) Defence mechanisms of the lung.
 - (b) Pulmonary function tests.
 - (c) Restrictive lung diseases.
6. Write short notes on any FIVE of the following : (5 × 4 = 20)
 - (a) Broncho pulmonary segments.
 - (b) Flail chest.
 - (c) Tracheostomy.
 - (d) Cough reflex.
 - (e) Hypertrophic pulmonary osteoarthropathy.
 - (f) Pulmonary oedema.
 - (g) Intercostal drainage.

[MS 912]

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Fifth Semester

(Revised Regulations)

Paper III — CLINICAL CARDIO-RESPIRATORY DISEASES

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in
separate answer books.

SECTION A

1. Write an essay on any ONE of the following : (20 marks)
 - (a) Describe the causes, clinical features and management of mitral regurgitation.
 - (b) Describe the coronary artery circulation. Discuss the clinical features of partial occlusion of circulation and its management. Mention the indications for surgery for ischaemic heart disease.
2. Write short notes on any SIX : (6 × 5 = 30 marks)
 - (a) Atrial septal defect
 - (b) Constrictive pericarditis
 - (c) Marfan's syndrome
 - (d) Palpitation
 - (e) Right bundle branch block
 - (f) Secondary pulmonary hypertension
 - (g) Different types of pulses
 - (h) Atrial fibrillation.

[MS 912]

SECTION B

3. Write an essay on any ONE of the following : (20 marks)
 - (a) Discuss the different types, clinical features and management of bronchogenic carcinoma.
 - (b) Discuss the causes, clinical features, diagnosis, complications and management of Empyema thorax.
4. Write short notes on any SIX : (6 × 5 = 30 marks)
 - (a) Causes of sudden dyspnoea
 - (b) Pigeon chest
 - (c) Cervical rib
 - (d) Respiratory centre
 - (e) Lung cysts
 - (f) Indications for tracheostomy
 - (g) Congenital bronchiectasis
 - (h) Spontaneous pneumothorax.

[SV 912]

Sub. Code : 5163

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Fifth Semester

(Revised Regulations/Transitory Course)

Paper III — CLINICAL CARDIO-RESPIRATORY
DISEASES

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A

1. Write an essay on any ONE of the following :
(20 marks)

(a) Discuss the causes, types, signs, symptoms, investigations and management of Aortic stenosis.

(b) Mention the possible causes of congenital heart diseases. Discuss the types, signs, symptoms, complications, investigations and management of ventricular septal defect.

2. Write short notes on any SIX : (6 × 5 = 30 marks)

- (a) Cardio myopathy.
- (b) Regulation of blood pressure.
- (c) Collapsing pulse.
- (d) Subacute bacterial endocarditis.
- (e) Bullous emphysema.
- (f) Cardiac Rehabilitation.
- (g) Differences between central and peripheral cyanosis.
- (h) Collapsing pulse.

SECTION B

3. Write an essay on any ONE of the following : (20 marks)

(a) Discuss the indications, maintenance, complications, weaning methods of mechanical ventilator therapy. Compare normal and ventilator breathing.

(b) Describe briefly the various chronic obstructive and restrictive pulmonary diseases. Discuss the lung function tests and their variations in such conditions.

4. Write short notes on any SIX : (6 × 5 = 30 marks)

- (a) Corpulmonale.
- (b) Window operation.
- (c) Assisted ventilation.
- (d) Tension pneumothorax.
- (e) Types and clinical features of bronchogenic carcinoma.
- (f) Rickets and bony cage.
- (g) Cheyne-Stokes breathing.
- (h) Flail chest.

[SV 928]

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Fifth Semester

(New Regulations)

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

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A

1. Write an essay on any ONE of the following : (20)

(a) Briefly outline the electrical activity of the myocardium and describe the principles of cardio-pulmonary resuscitation.

(b) Discuss the pre and post operative cardiac evaluation of a patient posted for open Heart Surgery. Outline briefly the monitoring of cardiac patient.

2. Write short notes on any SIX : (6 × 5 = 30)

(a) Subacute bacterial endocarditis.

(b) Coarctation of aorta.

(c) Prosthetic heart valves.

(d) Thrombolytic therapy.

(e) Apical impulse.

(f) ECG.

(g) Pulsus paradoxus.

(h) Heart sounds.

SECTION B

3. Write an essay on any ONE of the following : (20)

(a) Discuss the different chest wall injuries, their diagnosis, complication and management.

(b) Discuss the causes, signs and symptoms, diagnosis, complications and management of Lung Abscess and Bronchiectasis.

4. Write short notes on any SIX : (6 × 5 = 30)

(a) Arterial Blood gas analysis.

(b) Accessory muscles of respiration.

(c) Rickets and Bony cage.

(d) Stove-in chest.

(e) Cyanosis.

(f) Bronchopleural fistula.

(g) Respiratory acidosis.

(h) O₂ toxicity.

[SM 912]

ACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Fifth Semester

(Revised Regulations)

Paper III — CLINICAL CARDIORESPIRATORY DISEASES

Time : Three hours

Maximum : 100 marks

Answer Section A and B in separate answer books.

SECTION A

1. Write an essay on any ONE of the following : (20)

(a) What is persistent ductus arteriosus? Describe the clinical features, diagnosis and treatment.

(b) Name four cyanotic heart diseases. Describe the clinical features, diagnosis and treatment of one of them.

2. Write short notes on any SIX : (6 × 5 = 30)

(a) Heart lung machine.

(b) Ventricular Fibrillation.

(c) Fallot's spell.

(d) Cardiac tamponade.

(e) Late complications of myocardial infarction.

(f) Artificial pace makers.

(g) Infective endocarditis.

(h) External cardiac massage.

SECTION B

3. Write an essay on any ONE of the following : (20)

(a) The etiology, diagnosis, complications and treatment of lung abscess.

(b) Describe the causes of pneumothorax and its management.

4. Write short notes on any SIX : (6 × 5 = 30)

(a) Destroyed lung.

(b) Diaphragm.

(c) Hydatid cyst of lung.

(d) Intercostal drainage.

(e) Thoracotomy.

(f) Surgical complications of pulmonary tuberculosis.

(g) Pink puffer.

(h) Ventilators.

[SM 928]

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Fifth Semester

(New Regulations)

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

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A

1. Write an essay on any ONE of the following : (20)
 - (a) A 30 year old man (smoker) was admitted and diagnosed as having Bronchogenic carcinoma in right lung; planned for Pneumonectomy. Explain the pre and post operative physiotherapy management for this man.
 - (b) Explain the role of physiotherapy in the intensive care unit.
2. Write short notes on any SIX : (6 × 5 = 30)
 - (a) Postural drainage
 - (b) Belt exercises
 - (c) Ankylosing spondylitis
 - (d) Pleural effusion
 - (e) Paradoxical breathing
 - (f) Stair case exercise programme
 - (g) Aortic regurgitation
 - (h) Persistent Ductus Arteriosus.

SECTION B

3. Write an essay on any ONE of the following : (20)
 - (a) Explain the stages of Thoracoplasty; Indication and Contra indications for Thoracoplasty. Write how the physiotherapist can minimise the complications after thorocoplasty surgery.
 - (b) Explain the pathological changes, signs and symptoms in Bronchiectasis. Discuss the role of physiotherapy for a patient with Bronchiectasis.
4. Write short notes on any SIX : (6 × 5 = 30)
 - (a) Manual hyper inflation
 - (b) Fracture ribs
 - (c) Vibrations and shakings
 - (d) Mechanism of Respiration
 - (e) Decortication
 - (f) Ventricular septal defect
 - (g) Ergo metry test
 - (h) Lobar pneumonia.

[SG 912]

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Fifth Semester

(Revised Regulations/Transitory Regulations/New
Regulations)

Paper III — CLINICAL CARDIORESPIRATORY
DISEASES (CARDIORESPIRATORY DISEASES FOR
PHYSIOTHERAPIST)

Time : Three hours *APRIL 99* Maximum : 100 marks

Answer Section A and B in separate answer books.

SECTION A

1. Write an essay on ONE of the following : (20)
 - (a) Describe the clinical features, diagnosis and treatment of coarctation of aorta.
 - (b) Discuss the care of the patient after openheart surgery.
2. Write short notes on any SIX : (6 × 5 = 30)
 - (a) Deep vein thrombosis
 - (b) Eisenmenger syndrome
 - (c) Shunts in Treatment of Fallot's tetralogy
 - (d) Closed mitral commissurotomy
 - (e) Secondary system hypertension
 - (f) Echocardiography
 - (g) Artificial heart valves
 - (h) Cardiac output.

SECTION B

3. Write an essay on any ONE of the following :
 - (a) Discuss the etiology of bronchiectasis. Describe the clinical features, diagnosis and treatment of right lower lobe bronchiectasis.
 - (b) Discuss the complications of multiple rib fractures and their management. (20)
4. Write short notes on any SIX : (6 × 5 = 30)
 - (a) Funnel chest
 - (b) Pneumonectomy
 - (c) Vital capacity
 - (d) Cough reflex
 - (e) Pleural effusion
 - (f) Blue bloater
 - (g) Pulmonary embolism
 - (h) Oxygen toxicity.

[KC 920]

Sub. Code : 5163

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

(Fifth Semester/Seventh Semester)

(Revised Regulations/Transitory Course/Modified)

(Cardio respiratory disease for Physiotherapist)

Paper III CLINICAL CARDIO RESPIRATORY

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books

SECTION A

1. Answer any ONE question :

(a) Describe the clinical features, complications and management of lung abscess with special reference to physiotherapy.

(b) Describe in detail the preoperative assessment and management of a patient posted for thoracotomy.

2 Write short notes on any SIX (6 × 5 = 30)

(a) Pigeon chest

(b) Coarctation of aorta

(c) Haemothorax

(d) Ventricular septal defect

(e) Bronchiectasis

(f) Median sternotomy

(g) Store-in-chest

SECTION B

3. Answer any ONE of the following : (20)

(a) Describe in detail the following post operative procedures : Management of endotracheal/endonasal tubes, tracheal suction, weaning the patient from the ventilation extubation technique and post extubation care.

(b) Describe the clinical features, complications and treatment of mitral stenosis.

4. Write short notes on any SIX of the following : (6 × 5 = 30)

(a) Congestive cardiac failure

(b) Vital signs

(c) Muscles of respiration

(d) List of cardiac conditions requiring closed heart surgery

(e) Broncho pulmonary segments

(f) Tunnel chest

(g) Cardiac massage.