

[KD 923]

Sub. Code : 5178

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Sixth Semester/Eighth Semester

**(New/Revised Regulations and Transitory/Modified
Regulations)**

P.T. – IN CARDIO-RESPIRATORY DISEASES

Time : Three hours

Maximum : 100 marks

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

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

Or

(b) A 40 years old man underwent LOBECTOMY. Discuss the pre-operative and post-operative physiotherapy programme.

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

- (a) Thoracic Expansion Exercises.
- (b) Lobar pneumonia.
- (c) Peak Expiratory Flow Rate.
- (d) Pleural effusion.
- (e) Exercise Tolerance test.
- (f) Deep breathing exercises.
- (g) Aerosol therapy.
- (h) SIMV.

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

(a) Discuss in detail the Open Heart Surgery. Describe the cardiac rehabilitation programme at the post operative ward and cardiac rehabilitation centre.

Or

(b) (i) Describe the principles of cardio-vascular stress.

(ii) Write in detail the role of physiotherapist in the care of patient who is in Intensive Care Unit (ICU).

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

- (a) Coronary circulation.
- (b) Treadmill test.
- (c) Karatagener's syndrome.
- (d) Cough reflex.
- (e) Unstable Angina.
- (f) Complications of patent ductus arteriosus.
- (g) Deep vein thrombosis.
- (h) Cyanotic spell.
- (i) Cardio-Pulmonary Resuscitation.
- (j) CPAP mask.

[KE 923]

Sub. Code : 5178

BACHELOR OF PHYSIOTHERAPY
DEGREE EXAMINATION.

Sixth/Eighth Semester

(New/Revised Regulations and Transitory/
Modified Regulations)

Paper III — P.T. — IN CARDIO-RESPIRATORY
DISEASES

(PHYSIOTHERAPY FOR CARDIO-RESPIRATORY
CONDITIONS)

Time : Three hours

Maximum : 100 marks

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

(a) A 40 year old woman has undergone hysterectomy for cervical cancer. Describe the complete post-operative treatment of this patient.

(b) Discuss the complete chest physiotherapy treatment of a debilitated 70 year old patient in the ICU for 3 months.

2. Write short notes on any SIX of the following :

(6 × 5 = 30)

(a) Pectin Excavation

(b) Paradoxical breathing

(c) Chest vibrations

(d) Nebulisers

(e) Thoracic mobility exercises

(f) Auscultation

(g) Sputum

(h) Huffing.

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

(a) Describe the post-operative treatment following a (Rt) sided Pneumonectomy on a 35 year old man, starting from the ICU till discharge.

(b) What is the corrective surgery for Tetralogy of Fallot? Explain the pre and post operative treatment following this surgery.

4. Write short notes on any SIX of the following :

(6 × 5 = 30)

(a) Oxygen therapy

(b) Bronchopulmonary segments

(c) Interneural Drainage

(d) Hyperventilation

(e) CPAP

(f) Aerosol therapy

(g) Dyspnoea

(h) Incisions in Cardiothoracic surgery.

March-2002

[KG 923]

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Sub. Code : 5178

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Sixth/Eighth Semester

**(Revised Regulations and Transitory/Modified
Regulations)**

**Paper III — P.T. — IN CARDIO-RESPIRATORY
DISEASES
(PHYSIOTHERAPY FOR CARDIO-RESPIRATORY
CONDITIONS)**

Time : Three hours

Maximum : 100 marks

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

(a) Define Bronchial Asthama. How can you confirm the diagnosis of bronchial asthma using any one laboratory test? Discuss the management in a 10 yr old boy suffering from Bronchial asthma with special emphasis on long-term rehabilitation.

(b) How does Ankylosing Spondylitis affect the Respiratory System? Describe the management in a 25 yr old male suffering from Ankylosing Spondylitis and add a home program.

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

- (a) List five physiological protective mechanisms in the respiratory system.
- (b) Differentiate huffing and coughing, give indications in which you train the patient for huffing.
- (c) Describe five contra indications of postural drainage.
- (d) Give five immediate postoperative problems seen in the respiratory system.
- (e) Give the significance of parameters that are measured during cardiac rehabilitation.
- (f) Describe the care to be taken while suctioning.
- (g) Describe the type of breathing exercises that can be given to reduce the work of breathing and relaxation.
- (h) How do you prevent DVT in a postoperative patient?

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

- (a) A 35 yr old lady has been operated for a (L) upper lobe lobectomy following Pulmonary Tuberculosis. What is the pre and postoperative management?
- (b) A 50 yr old male has been operated for CABG. Discuss the Phase I and II cardiac rehabilitation.

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

- (a) What is anatomical and physiological dead space? How can a ventilator increase the dead space?
- (b) Describe the management of pain in a postoperative patient.
- (c) What is incentive spirometry? Give three indications.
- (d) What is the significance of acid-base equilibrium to the respiratory system? Give parameters and their normal limits that indicate the equilibrium.
- (e) Give Do's and Don'ts to a patients cardiac rehabilitation home program.
- (f) What are jet and ultrasonic nebulisers? Give indications for its usage.
- (g) Differentiate haematemesis and haemoptysis.
- (h) What is PEEP in a mechanical ventilator and give its dangers.

[KH 923]

Sub. Code : 5178

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Sixth/Eighth Semester

**(Revised Regulations and Transitory/Modified
Regulations)**

**Paper III — P.T. — IN CARDIO-RESPIRATORY
DISEASES**

**(PHYSIOTHERAPY FOR CARDIO-RESPIRATORY
CONDITIONS)**

Time : Three hours

Maximum : 100 marks

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

**(a) A 30 year old Lady planned for Lobectomy,
Right Lower Lobe due to Lung abscess. Explain the pre
and post operative physiotherapy programme for her.**

**(b) A 50 year old Business man was admitted in
the coronary care unit and diagnosed as having
myocardial infarction. Explain the role of physiotherapy
from the 3rd day onwards till his discharge from the
hospital.**

2. Write short notes on any SIX of the following :

(6 × 5 = 30)

- (a) Kypho-scoliosis
- (b) Suction
- (c) Car pulmonale
- (d) Bronchial tree
- (e) Thoracic-incisions
- (f) Emphysema
- (g) Chest Mobilization exercises
- (h) CPAP masks.

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

(a) Explain about forced expiratory techniques. Discuss the factors involving with Normal Cough Mechanism. Discuss the methods to aid removal of secretions.

(b) Describe the Assessment and Physiotherapeutic Management for a 18 year old girl with Asthma.

4. Write short notes on any SIX of the following :

- (a) Tension pneumothorax
 - (b) Broncho pneumonia
 - (c) Auscultation
 - (d) Cardiopulmonary resuscitation
 - (e) Pleurisy
 - (f) Hiatus Hernia
 - (g) Branchitis
 - (h) Pulmonary function tests.
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[KJ 923]

Sub. Code : 5178

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Sixth/Eighth Semester

(Revised Regulations and Transitory/Modified
Regulations)

Paper III — P.T. — IN CARDIO-RESPIRATORY
DISEASES

(PHYSIOTHERAPY FOR CARDIO-RESPIRATORY
CONDITIONS)

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

M.C.Q. must be answered **SEPARATELY** on the
answer sheet provided as per the instructions on
the first page of M.C.Q. Booklet.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay : (2 × 15 = 30)

1. Explain the pre and post operative management
for a 45 years old female posted for Right
pneumonectomy.

2. Discuss the Physiotherapy management for a
50 years old executive with Ischemic Heart Disease,
with emphasis on long term rehabilitation.

II. Short notes :

(10 × 5 = 50)

- (a) Chyene-Stoke Breathing
- (b) Oxygen therapy
- (c) Cough reflex
- (d) Incentive spirometer
- (e) Pulse oximeter
- (f) Thoracic mobility exercises
- (g) Inter coastal drainage
- (h) Angina scale
- (i) Odema
- (j) IPPB.

April-2003

[KI 923]

Sub. Code : 5178

BACHELOR OF PHYSIOTHERAPY
DEGREE EXAMINATION.

Sixth/Eighth Semester

(Revised Regulations and Transitory/Modified
Regulations)

Paper III — P.T. — IN CARDIO — RESPIRATORY
DISEASES

(PHYSIOTHERAPY FOR CARDIO--RESPIRATORY
CONDITIONS)

Time : Three hours

Maximum : 100 marks

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

(a) Describe the signs and symptoms and possible complications of chronic bronchitis. Give a brief account of the management of a 45 year old female suffering from chronic Bronchitis.

(b) Describe the Pre-and Postoperative physiotherapy for a 60 year old man who has to have mitral valve replacement.

2. Write short notes on any SIX of the following :

(6 × 5 = 30)

(a) ATELECTASIS

(b) Broncho-pleural-fistula

(c) Manual Hyper inflation

(d) Sputum examination

(e) Paradoxical breathing

(f) Atrial septal defect

(g) Relaxed positions for asthmatic patient

(h) Humidification.

(d) Inhalation therapy

(e) Cardiac failure

(f) Purse lip breathing

(g) PT management for cystic fil

(h) Infective endocarditis.

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

(a) Write down the indications and contra indications for postural drainage. How will you organise home postural drainage for a young adult.

(b) Role of physiotherapy for a child who had a surgery of Tetralogy of Fallot.

4. Write short notes on any SIX of the following :

(6 × 5 = 30)

(a) Haemoptysis

(b) Exercise tolerance

(c) Branchopulmonary segments

April-2003

[KI 991]

Sub. Code : 5186

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

(New Modified Regulations)

Eighth Semester

**Paper III — PHYSIOTHERAPY FOR CARDIO
RESPIRATORY CONDITIONS**

Time : Three hours

Maximum : 100 marks

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

(a) List down the indications for CABG. Write down the pre-operative assessment and post-operative management in physiotherapy following CABG.

(b) Explain in detail about the clinical monitoring in ICU. Elaborate the principles and techniques of physiotherapy treatment in ICU.

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

(a) Graphical representation of lung volumes.

(b) Primary complex.

(c) Physiotherapy treatment following empyema of right lungs.

- (d) Broncho-pulmonary fistula.
- (e) Post-operative management in exploratory-laprotomy.
- (f) Post-operative management in closed mitral valvotomy.
- (g) Mention the different types of incision on thoracic wall. Write in short about the management of same.

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

(a) Write about the subjective and objective assessment of a patient with bronchiectasis. Mention the treatment of bronchiectasis in physiotherapy.

(b) Rehabilitation of a 10 year old child with right side pneumonectomy.

4. Write short notes on any SIX of the following :

(6 × 5 = 30)

- (a) Paradoxical breathing.
- (b) Procedure and complications of suctioning.
- (c) Clinical importance of aerobic exercises in rehabilitation.
- (d) Techniques of respiratory muscle strengthening.

(e) Relaxation programmes for a patient with bronchial asthma in the stage of hospitalization.

(f) Significance of treadmill in cardiac rehabilitation.

(g) Physiotherapy treatment for hydro hydropneumothorax.

[KJ 991]

Sub. Code : 5186

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Eighth Semester

(New Modified Regulations)

Paper III — PHYSIOTHERAPY FOR CARDIO
RESPIRATORY CONDITIONS

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

M.C.Q. must be answered **SEPARATELY** on the
answer sheet provided as per the instructions on
the first page of M.C.Q. Booklet.

Answer ALL questions.

Draws suitable diagrams wherever necessary.

I. Essay Questions : (2 × 15 = 30)

1. Discuss the physiotherapy management of a mine
worker, with chronic bronchiectasis, hospitalised for
lobectomy of his right lower lobe.

2. Explain the role of physiotherapy after the
myocardial infarction in early and later stages.

II. Short notes on :

(10 × 5 = 50)

- (a) Coughing and Huffing techniques.
 - (b) Respiratory muscles.
 - (c) Relaxed diaphragmatic breathing exercises.
 - (d) Thoracic mobility exercises.
 - (e) Loosening the lung secretions.
 - (f) Relaxation positions for breathless patients.
 - (g) Endotracheal suctioning.
 - (h) Broncho-pleural fistula.
 - (i) Artificial respiration.
 - (j) Raising the resting respiratory level.
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[KL 923]

Sub. Code : 5178

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Sixth/Eighth Semester

**(Revised Regulations and Transitory/Modified
Regulations)**

**Paper III — P.T. — IN CARDIO-RESPIRATORY
DISEASES**

**(PHYSIOTHERAPY FOR CARDIO-RESPIRATORY
CONDITIONS)**

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 : (2 × 15 = 30)

**(1) Discuss the pulmonary rehabilitation
programme in exercise induced bronchial Asthma. (15)**

**(2) Explain the pre-operative and post-operative
physiotherapy management for a case of ventricular
septal defect. (15)**

II. Short notes :

(10 × 5 = 50)

- (a) Exercise tolerance test.**
- (b) Suction.**
- (c) Lung function tests.**
- (d) Intermittent positive-pressure breathing.**
- (e) Stages of a cough.**
- (f) Treadmill test.**
- (g) Fallots tetralogy.**
- (h) Indications for postural drainage.**
- (i) Surgical pneumothorax.**
- (j) Aerosol therapy.**

[KL 991]

Sub. Code : 5186

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Eighth Semester

(New Modified Regulations)

**Paper III — PHYSIOTHERAPY FOR CARDIO
RESPIRATORY CONDITIONS**

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.

A. Essay Questions : (2 × 15 = 30)

**(1) Describe the physiotherapeutic intervention
in the management of bronchial asthma.**

**(2) Discuss the pre and post operative
physiotherapy programme for a patient who underwent
mitral valve replacement for incompetence of the valve.**

B. Write short notes on : (10 × 5 = 50)

- (a) Management of incisional pain**
- (b) Anatomical and physiological dead space**
- (c) Incentive spirometry**
- (d) Abdominal breathing**
- (e) Oxygen therapy**
- (f) Chest massage manipulations**
- (g) Contra-indications for postural drainage**
- (h) Kyphoscoliosis**
- (i) Exercise tolerance testing**
- (j) Buerger's exercise.**