

**August 2011**

**[KZ 6261]**

**Sub. Code : 6261**

**BACHELOR OF PHYSIOTHERAPY EXAMINATION**

**THIRD YEAR / SEVENTH SEMESTER  
PAPER III – CLINICAL CARDIO RESPIRATORY DISEASES**

*Q.P. Code : 746261*

**Time : Three hours**

**Maximum : 100 marks**

**ANSWER ALL QUESTIONS**

**I. LONG ESSAYS**

**(2X20=40)**

1. Briefly describe the blood supply of the heart. Explain in detail the etiology, clinical features, diagnosis, medical and surgical management of myocardial infarction.
2. Define chronic bronchitis and emphysema .Explain in detail the etiology, clinical features, diagnosis, investigations and medical management of chronic obstructive pulmonary disease.

**II. SHORT NOTES**

**(8X5=40)**

1. Empyema.
2. Basic life support.
3. Broncho pulmonary segment.
4. Cardiac cycle.
5. Pulmonary tuberculosis: Etiology, diagnosis and management.
6. Major and minor Jones criteria of rheumatic fever.
7. Flial chest: Diagnosis and management.
8. Regulation of blood pressure.

**III. SHORT ANSWERS**

**(10X2=20)**

1. Define vital capacity. What is the normal value for 70 kg adult?
2. Components of Tetralogy of Fallot.
3. Draw a normal E.C.G and label the parts.
4. Define bronchiectasis.
5. Name the four common cell types of lung cancer.
6. Define cyanosis.
7. Name four causes of cor-pulmonale.
8. Name an inspiratory and an expiratory muscle of respiration.
9. Name the four valves of the heart.
10. Name two conditions associated with polycythemia.

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February 2012

[LA 6261]

Sub. Code: 6261

**BACHELOR OF PHYSIOTHERAPY EXAMINATION  
THIRD YEAR / SEVENTH SEMESTER  
PAPER III – CLINICAL CARDIO RESPIRATORY DISEASES**

**Q.P. Code: 746261**

**Time: Three Hours**

**Maximum: 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2X20=40)**

1. Discuss in detail about the etiology, clinical features, Diagnosis and management of Bronchial Asthma.
2. Describe in detail about the principle of Cardio Vascular Stress (Treadmill) Test.

**II. Write notes on:**

**(8X5=40)**

1. Coronary Circulation of Heart
2. Postural drainage
3. Hospital Acquired pneumonia
4. Hazards of Smoking
5. Median Sternotomy
6. Atrial Septal Defect
7. Clinical features of Mitral Stenosis
8. Pleural effusion

**III. Short Answers:**

**(10X2=20)**

1. Clubbing
2. Respiratory Acidosis
3. Sinoatrial (SA) Node
4. Continuous Positive Airway Pressure(CPAP)
5. Asbestosis
6. Six Minute Walk Test
7. Tension Pneumothorax
8. Pectus excavatum
9. PANCOAST Tumor
10. Nebulizer

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[LC 6261]

FEBRUARY 2013

Sub. Code: 6261

**THIRD YEAR BPT EXAM / SEVENTH SEMESTER  
PAPER III – CLINICAL CARDIO RESPIRATORY DISEASES**

**Q.P. Code: 746261**

**Time: Three Hours  
(180 Min)**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. What is community acquired pneumonia? Discuss in detail about the etiology, pathogenesis, diagnosis and medical management of severe community acquired pneumonia. Explain the role of physiotherapist in improving the outcome in patients having pneumonia requiring ventilatory assistance.
2. What is angina pectoris? Explain in detail the risk factors, etiology, clinical features, investigation medical and surgical management of a patient with unstable angina.

**II. Write notes on:**

**(8X5=40)**

1. Pre and post operative physiotherapy plan for pneumonectomy.
2. Cor-pulmonale: causes, clinical features and diagnosis.
3. Broncho pulmonary segments.
4. Exercise testing: Indications and physiological principles.
5. Cardio pulmonary resuscitation.
6. Atrial Septal Defect (ASD).
7. Directly Observed Therapy Short course (DOTS).
8. Regulation of blood pressure.

**III. Short Answers:**

**(10X2=20)**

1. Draw a normal ECG tracing and label the parts.
2. Name the staining technique used to identify tuberculous bacilli.
3. Name four cyanotic congenital heart diseases.
4. Define chronic bronchitis.
5. Draw the conduction system of the heart and label the parts.
6. Define tidal volume.
7. What is flail chest?
8. Mention two occupational lung diseases with the causative factor.
9. Define cardiac output.
10. How do we treat empyema?

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[LD 6261]

AUGUST 2013

Sub. Code: 6261

**THIRD YEAR/SEVENTH SEMESTER BPT EXAM  
PAPER III - CLINICAL CARDIO RESPIRATORY DISEASES**

*Q.P. Code : 746261*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. Discuss in detail about the definition, etiology, pathogenesis, clinical features, investigations, complications and medical management of Chronic Bronchitis
2. Discuss in detail about the etiology, pathogenesis, clinical features, complications, investigations and medical management of Tetralogy of Fallot.

**II. Write Notes on:**

**(8X5=40)**

1. Thoracotomy
2. Sneeze reflex
3. Patent Ductus arteriosus
4. Coal worker's Pneumoconiosis
5. Lung Abscess
6. Pneumothorax
7. Pleural effusion
8. Infective Endocarditis

**III. Short Answers:**

**(10X2=20)**

1. Trachea
2. Residual Volume
3. Anatomical Dead space
4. Cheyne-Stokes respiration
5. Pyothorax
6. Levine sign
7. Dressler's Syndrome
8. Blue-Bloaters
9. Conducting zone
10. Modifiable risk factors for Myocardial Infarction

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[LE 6261]

FEBRUARY 2014

Sub. Code: 6261

THIRD YEAR/SEVENTH SEMESTER BPT EXAM  
PAPER III - CLINICAL CARDIO RESPIRATORY DISEASES

*Q.P. Code : 746261*

Time: Three Hours

Maximum: 100 marks

**I. Elaborate on:**

**(2X20=40)**

1. Describe Post Operative pulmonary complications. How does the pulmonary function change Post Operatively.
2. Define Bronchiectasis. Discuss in detail about the etiology, pathogenesis, clinical features and management of Bronchiectasis.

**II. Write Notes on:**

**(8X5=40)**

1. Surgical treatment for Atrial Septal Defect.
2. Types of artificial valves
3. Heart lung machine
4. Flail chest
5. Deep vein thrombosis
6. Cardiac Tamponade
7. Homan's sign
8. Basic life support

**III. Short Answer:**

**(10X2=20)**

1. Coarctation of Aorta
2. Postero lateral thoracotomy
3. Complications of tracheostomy
4. Lung Compliance
5. Indications for Closed Heart surgery
6. Patent ductus arteriosus
7. Postero lateral thoracotomy
8. Dead space
9. Massive Haemoptysis
10. Defibrillator

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[LF 6261]

AUGUST 2014

Sub. Code: 6261

**THIRD YEAR/SEVENTH SEMESTER BPT EXAM  
PAPER III - CLINICAL CARDIO RESPIRATORY DISEASES**

***Q.P. Code : 746261***

**Time: Three hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. Describe the etiology and pathogenesis of adult respiratory distress syndrome. Discuss in detail the management of adult respiratory distress syndrome and list their complications.
2. Briefly outline the Pathogenesis of Bronchial Asthma. Discuss in detail the Management of acute Bronchial Asthma.

**II. Write Notes on:**

**(8X5=40)**

1. Hospital acquired pneumonia
2. Pace makers for heart block
3. Pneumoconiosis
4. Empyema thoracis
5. Pectus carinatum
6. Complications of thoracotomy
7. Percutaneous transluminous Coronary angiography
8. Lung compliance

**III. Short Answer:**

**(10X2=20)**

1. Intermittent Positive Pressure Breathing
2. Status Asthmaticus
3. Surfactant
4. Fracture rib
5. Pulsus Alternans
6. Weaning from ventilatory support
7. Cyanosis
8. Complications of Tracheostomy
9. Postural drainage
10. Indications for tracheal intubation

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[LG 6261]

FEBRUARY 2015

Sub. Code: 6261

**THIRD YEAR/SEVENTH SEMESTER BPT EXAM  
PAPER III - CLINICAL CARDIO RESPIRATORY DISEASES**

*Q.P. Code : 746261*

**Time: Three hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss in detail the Etiology, pathogenesis, clinical features, investigations and management of Chronic bronchitis. Add a note on its complications.
2. What is Angina? Discuss in detail about the Etiology, risk factors, clinical features, diagnosis, medical and surgical management of patients with Angina Pectoris.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Aspergillosis
2. Rib fracture
3. Cardiac tamponade
4. Mitral stenosis
5. Clinical features and management of Rheumatic fever
6. Pulmonary function test
7. VSD
8. Coronary circulation

**III. Short answers on:**

**(10 x 2 = 20)**

1. Name two occupational lung diseases
2. Types of murmur
3. Causes of lung carcinoma
4. Name the acyanotic heart diseases
5. Cobb's angle
6. Eisenmengers Syndrome
7. Draw a normal ECG and Label its parts
8. Define cardiac output
9. Aspiration Pneumonia
10. Dead Space

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[LH 6261]

AUGUST 2015

Sub. Code: 6261

**THIRD YEAR/SEVENTH SEMESTER BPT EXAM  
PAPER III - CLINICAL CARDIO - RESPIRATORY DISEASES**

*Q.P. Code : 746261*

**Time: Three hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define suction. Discuss in detail the various types of suction and steps involved in it. Add a note on the indications and complications of suction.
2. Discuss in detail about the Etiology, clinical features, investigations and management of patients with Infective endocarditis.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Heart lung Machine.
2. Management of Bronchial asthma.
3. Pneumothorax and its types.
4. Graded exercise tolerance test.
5. Broncho pleural fistula.
6. Lung volumes and capacities.
7. Posterolateral thoracotomy.
8. Hypertension and its management.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Pacemaker.
2. Broncho pulmonary segments.
3. Commissurotomy.
4. Patent ductus arteriosus.
5. Paradoxical breathing.
6. Cobb's angle.
7. Causes of IHD.
8. Name the chest wall deformities.
9. Types of angina.
10. Normal JVP.

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[LI 6261]

FEBRUARY 2016

Sub. Code: 6261

**THIRD YEAR/SEVENTH SEMESTER BPT EXAM  
PAPER III - CLINICAL CARDIO - RESPIRATORY DISEASES**

*Q.P. Code : 746261*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe the etiology, clinical features and management of Carcinoma Lung.
2. List the conditions requiring Open Heart Surgery. Briefly describe the types, clinical features and management of Atrial Septal Defect (ASD).

**II. Write notes on:**

**(8 x 5 = 40)**

1. Cough reflex.
2. Scoliosis.
3. Normal ECG.
4. Tetralogy of Fallot.
5. Flail chest.
6. Bronchopulmonary segments.
7. CPAP (Continuous Positive Airway Pressure).
8. Decortication.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Stroke volume.
2. Vital capacity.
3. Pulse pressure.
4. Pigeon chest.
5. Suppurative Lung diseases.
6. List four Cyanotic Congenital Heart diseases.
7. Risk factors for Ischaemic Heart disease.
8. Valves of the Heart.
9. Suctioning.
10. Four clinical features of Mitral Stenosis.

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[LJ 6261]

AUGUST 2016

Sub. Code: 6261

**THIRD YEAR/SEVENTH SEMESTER BPT EXAM  
PAPER III - CLINICAL CARDIO - RESPIRATORY DISEASES**

*Q.P. Code: 746261*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe the clinical features, types, complication, diagnosis and management of Pneumothorax.
2. Discuss in detail about the etiology, clinical features, investigations, complications and management of Hypertension.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Myocarditis
2. Aspergillosis
3. Lung abscess
4. Cardio Pulmonary Resuscitation
5. Chronic Bronchitis
6. Cardiac Tamponade
7. Mitral Regurgitation
8. Management of Pulmonary T.B

**III. Short answers on:**

**(10 x 2 = 20)**

1. Pneumoconiosis.
2. Define Thoracotomy.
3. Bradycardia.
4. Syncope.
5. Dead space.
6. Define Emphysema.
7. Define Patent Ductus Arterious.
8. List four Acynatoic heart diseases.
9. Name four risk factors for Myocardial Infarction.
10. Pectus Carinatum.

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[LK 6261]

FEBRUARY 2017

Sub. Code: 6261

**BPT DEGREE EXAMINATION  
THIRD YEAR/SEVENTH SEMESTER  
PAPER III - CLINICAL CARDIO - RESPIRATORY DISEASES**

*Q.P. Code: 746261*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:** (2 x 20 = 40)

1. List the conditions requiring closed Heart surgery. Briefly describe the clinical features, complication and management of Aortic Stenosis.
2. Discuss in detail about the etiology, clinical features, diagnosis and management of Bronchiectasis.

**II. Write notes on:** (8 x 5 = 40)

1. Cardiac arrest.
2. Spiro meter.
3. Conductive system of heart.
4. Fracture rib.
5. Coarctation of aorta.
6. Management of a patient after a Myocardial Infarction.
7. Median sternotomy.
8. Lung function test.

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

1. Arterial blood gas analysis.
2. Define Respiration.
3. Haemothorax.
4. Anoxia.
5. Define Cardiac output.
6. Lung contusion.
7. Pericarditis.
8. Tachypnoea.
9. Name four clinical feature of Rheumatic fever.
10. Pump handle movement.

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[LL 6261]

AUGUST 2017

Sub. Code: 6261

**BPT DEGREE EXAMINATION  
THIRD YEAR/SEVENTH SEMESTER  
PAPER III - CLINICAL CARDIO - RESPIRATORY DISEASES**

*Q.P. Code: 746261*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. List the causes and stages of Chronic Obstructive airway diseases. Describe the clinical features and management of Chronic Bronchitis.
2. List the risk factors for Coronary artery disease. Briefly describe the clinical features, and management of acute Myocardial Infarction.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Modes of ventilator.
2. Pneumothorax.
3. CPR.
4. Patent Ductus Arteriosus (PDA).
5. Blood pressure.
6. Cardiac stress testing.
7. Lobectomy.
8. Muscles of respiration.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Pulmonary embolism.
2. Inspiratory reserve volume.
3. Draw and label a normal ECG tracing.
4. Funnel chest.
5. Blood supply of the heart.
6. List the cyanotic congenital heart diseases.
7. Name four surgical procedures done through Median sternotomy approach.
8. Clubbing.
9. Name four occupational lung diseases.
10. Cardiac index.

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[LM 6261]

FEBRUARY 2018

Sub. Code: 6261

**BPT DEGREE EXAMINATION  
THIRD YEAR/SEVENTH SEMESTER  
PAPER III - CLINICAL CARDIO - RESPIRATORY DISEASES**

*Q.P. Code: 746261*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. List the conditions requiring Open Heart Surgery. Briefly describe the types, clinical features and management of Atrial Septal Defect (ASD).
2. Describe the etiology and pathogenesis of adult respiratory distress syndrome. Outline management of adult respiratory distress syndrome and list their complications.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Percutaneous transluminous Coronary angiography.
2. Lung compliance.
3. Arterial blood gas analysis.
4. Cough reflex.
5. Hospital acquired pneumonia.
6. Pace makers for heart block.
7. Pneumoconiosis.
8. Empyema thoracis.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Postero lateral thoracotomy.
2. Dead space.
3. Massive Haemoptysis.
4. Defibrillator.
5. Intermittent Positive Pressure Breathing.
6. Status Asthmaticus.
7. Surfactant.
8. Fracture rib.
9. Pulsus Alternans.
10. Weaning from ventilatory support.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LN 6261]

AUGUST 2018

Sub. Code: 6261

**BPT DEGREE EXAMINATION  
THIRD YEAR/SEVENTH SEMESTER  
PAPER III - CLINICAL CARDIO - RESPIRATORY DISEASES**

*Q.P. Code: 746261*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Etiology, pathogenesis, clinical features and management of infective endocarditis.
2. Bronchiectasis-etiology, pathology, clinical features and management.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Atrial septal defect.
2. Indications for coronary artery bypass surgery.
3. Name the chambers and valves of the heart.
4. List out the muscles of respiration.
5. Funnel chest.
6. Components of basic life support.
7. Indications for Percutaneous Transluminal angioplasty (PTA).
8. Indications for intercostals drainage.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Indications for decortication.
2. Indications for thoracotomy.
3. List out the drugs used for Myocardial Infarction.
4. Lobes and fissures of right lung.
5. Drugs used for heart failure.
6. Components Tetralogy of Fallot.
7. Indications for lobectomy.
8. Indications for intercostal drainage.
9. Drugs used for treatment of Rheumatic fever.
10. Cyanosis.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LO 6261]

FEBRUARY 2019

Sub. Code: 6261

**BPT DEGREE EXAMINATION  
THIRD YEAR/SEVENTH SEMESTER  
PAPER III - CLINICAL CARDIO - RESPIRATORY DISEASES**

*Q.P. Code: 746261*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe the clinical features, types, complication, diagnosis and management of Pneumothorax.
2. Discuss in detail about the etiology, clinical features, diagnosis and management of Heart failure.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Cardiomyopathy.
2. Pleural effusion.
3. Bronchial Asthma.
4. Ventricular septal defect.
5. Factors affecting lung compliance and airway resistance.
6. Blood pressure.
7. Pectus excavatum.
8. Weaning from ventilatory support.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Trachea.
2. Clubbing.
3. Define pulse.
4. Name an inspiratory and an expiratory muscle of respiration.
5. List the cardiac conditions required closed heart surgery.
6. Name four complications of lobectomy.
7. List four restrictive lung diseases.
8. Bucket handle movement.
9. MET.
10. Respiratory acidosis.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LP 6261]

AUGUST 2019

Sub. Code: 6261

**BPT DEGREE EXAMINATION  
THIRD YEAR/SEVENTH SEMESTER  
PAPER III - CLINICAL CARDIO - RESPIRATORY DISEASES**

*Q.P. Code: 746261*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. List the risk factors of Coronary artery disease. Briefly describe the etiology, clinical features and management of Ischemia Heart disease.
2. Discuss in detail about the etiology, clinical features, investigation, complication and conservative and surgical management of Pulmonary TB.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Lung volumes and capacities.
2. Chronic bronchitis.
3. Transposition of great vessels.
4. Median sternotomy.
5. Conductive system of heart.
6. Lobectomy.
7. Tetralogy of Fallot.
8. Cough reflex.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Define Angioplasty.
2. Name four Post operative complication.
3. Contraindications for Cardiac Stress Test.
4. Name four Risk Factors for Infective endocarditis.
5. Chynestroke breathing.
6. What are the components of Arterial Blood Gas analysis?
7. Name four Indications of Open Heart Surgery.
8. Name four Chronic Obstructive Pulmonary Diseases.
9. Grading for dyspnoea.
10. Name four indication of Lung surgery.

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**BPT DEGREE EXAMINATION  
THIRD YEAR/SEVENTH SEMESTER  
PAPER III - CLINICAL CARDIO - RESPIRATORY DISEASES**

*Q.P. Code: 746261*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define Suction. Discuss in detail the various types of Suction and steps involved in it. Add a note on the indications and complication of Suction.
2. What is Angina? Discuss in detail about the etiology, risk factors, clinical features, investigation and medical and surgical management for Angina Pectoris.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Myocarditis.
2. Aspergillosis.
3. Coarctation of aorta.
4. Emphysema.
5. Cardiac arrest.
6. Pneumonia.
7. Fracture rib.
8. Name the chambers and valves of the heart.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Define Cardiac output.
2. Indications for Cardiac Stress Test.
3. Four clinical features of Mitral stenosis.
4. Name the four common cell types of Lung Cancer.
5. Grading for clubbing.
6. Biot's Breathing.
7. Pursed lip breathing.
8. Pyopneumothorax.
9. Define Tachypnoea.
10. Drugs used for heart failure.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[LR 1220]**

**DECEMBER 2020  
(AUGUST 2020 EXAM SESSION)**

**Sub. Code: 6261**

**THIRD YEAR – (Regulation from 2013-2014)  
PAPER III - CLINICAL CARDIO - RESPIRATORY DISEASES  
Q.P. Code: 746261**

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe the etiology, clinical features and management of Bronchiectasis.
2. Explain in detail the etiology, clinical features, diagnosis and management of Rheumatic fever.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Cough Reflex.
2. Eypema.
3. Pulmonary Embolism.
4. Lung Abcess.
5. Cardio pulmonary resuscitation.
6. Atrial Septal Defect (ASD).
7. Tuberculosis.
8. Plueral effusion.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Draw a normal ECG.
2. Kyphosis.
3. Barrel Chest.
4. Bradycardia.
5. Pulse.
6. Atrial Fibrilation.
7. Pulmonary Oedema.
8. Palpitation.
9. Corpulmonale.
10. Cardiac Myopathy.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0921]**

**SEPTEMBER 2021  
(FEBRUARY 2021 EXAM SESSION)**

**Sub. Code: 6261**

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER III - CLINICAL CARDIO - RESPIRATORY DISEASES  
*Q.P. Code: 746261***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe the etiology, clinical features and management of carcinoma lung.
2. List the conditions requiring open heart surgery. Briefly describe the clinical features and management of Atrial Septal Defect.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Hypertension.
2. Conductive system of heart.
3. Upper respiratory tract.
4. Infective endocarditis.
5. Lung abscess.
6. Cardiac arrest.
7. Occupational lung disease.
8. Pneumothorax.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Stroke volume.
2. Pigeon chest.
3. Criteria for rheumatic fever.
4. Clubbing.
5. Pulses Alternans.
6. Weaning from ventilator support.
7. Status asthmaticus.
8. Modifiable risk factors for myocardial Infarction.
9. Indication for tracheal intubation.
10. Pace maker.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0122]**

**JANUARY 2022  
(AUGUST 2021 EXAM SESSION)**

**Sub. Code: 6261**

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE  
THIRD YEAR  
PAPER III - CLINICAL CARDIO - RESPIRATORY DISEASES  
*Q.P. Code: 746261***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe etiology, clinical features, complication and management of Bronchial asthma.
2. Discuss in detail about etiology, clinical features and management of infective endocarditis.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Upper respiratory tract.
2. Valves of the heart.
3. Ischaemic heart disease.
4. Angioplasty.
5. Pneumonia.
6. Pulmonary oedema.
7. Cardiac massage.
8. Haemopneumothorax.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Coal workers pneumoconiosis.
2. Name cardiac postoperative complication.
3. Indication for Tracheal intubation.
4. Clinical features of Aortic regurgitation.
5. Pulsus paradoxicus.
6. Weaning from ventilator support.
7. Status asthmaticus.
8. Pectusexcavatum.
9. Tachycardia.
10. Heart failure.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[LR 1220]**

**DECEMBER 2020  
(AUGUST 2020 EXAM SESSION)**

**Sub. Code: 6285**

**BPT DEGREE EXAMINATION  
THIRD YEAR**

**(New regulations for the candidates admitted from 2017-2018 onwards)**

**PAPER V – CLINICAL NEUROLOGY**

***Q.P. Code : 746285***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Define epilepsy. Describe in detail the classification, pathogenesis, clinical features, investigation and management of epilepsy.
2. Write in detail about causes, clinical features, investigation and management of spina bifida.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Craniovertebral junction anomalies
2. Difference between UMN and LMN lesion
3. Radial nerve injury
4. Sensory assessment
5. Alzheimer's disease and its management
6. Hydrocephalus
7. Spinal arachnoiditis and its management
8. Any two secondary complication of spinal cord injury
9. Syringomyelia
10. Modified ashworth scale

**III. Short answer on:**

**(10 x 2 = 20)**

1. Babinski sign
2. Nystagmus
3. Rigidity
4. Bell's phenomena
5. Thalamic pain
6. Check reflex
7. Rinne's test
8. Proprioception
9. Tensilon test
10. Any two non-equilibrium coordination tests

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0122]**

**JANUARY 2022  
(AUGUST 2021 EXAM SESSION)**

**Sub. Code: 6285**

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE  
THIRD YEAR- (Regulation from 2017-2018 onwards)  
PAPER V – CLINICAL NEUROLOGY  
*Q.P. Code : 746285***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Trace the anatomy of the Visual Pathways. Explain the extra ocular movements and muscles involved.
2. What is Mechanical back pain. Outline the causes, prevention and medical management using physiotherapy.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Samson Cock up splint.
2. Covid-19 infection – CNS manifestations.
3. Ape thumb Deformity.
4. Plantar Fascitis Pain.
5. Types of Epilepsy.
6. Primitive Grasp reflex.
7. Glossopharyngeal Neuralgia.
8. Frozen Shoulder Pain.
9. De Quervain syndrome.
10. Features of Spastic Diplegia.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Visual problems in Myesthenia Gravis.
2. Oxycephaly (Tower skull deformity).
3. Function of Detrusor Muscle.
4. Convexity Meningioma.
5. Significance of Muscle Fasciculations.
6. Cerebral Venous Thrombosis.
7. Disuse Muscular Atrophy.
8. Patient Mobilisation in Spinal Injuries.
9. Clinical testing for Touch, Pain & Temperature.
10. TIA in Brain Attack.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[LR 1220]**

**DECEMBER 2020  
(AUGUST 2020 EXAM SESSION)**

**Sub. Code: 6286**

**BPT DEGREE EXAMINATION**

**THIRD YEAR**

**(New regulations for the candidates admitted from 2017-2018 onwards)**

**PAPER VI – CLINICAL CARDIO-RESPIRATORY DISEASES**

***Q.P. Code : 746286***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss in detail the Etiology, pathogenesis, clinical features, investigations and management of Chronic bronchitis. Add a note on its complications.
2. Explain in detail the etiology, pathology, clinical features, diagnosis, medical and surgical management of myocardial infarction.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Postural drainage.
2. Pulmonary function test.
3. Infection Endocarditis.
4. Lung compliance.
5. Tetralogy of fallot.
6. Angina pectoris.
7. Hypertension and its management.
8. Decortications.
9. Cardiac arrest.
10. Broncho pleural fistula.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Aspiration pneumonia.
2. Suctioning.
3. Cough reflex.
4. Pulses alternans.
5. Anoxia.
6. Syncope.
7. Patent ductus arteriosus.
8. Clubbing.
9. Respiratory alkalosis.
10. Basic life support.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0921]**

**SEPTEMBER 2021  
(FEBRUARY 2021 EXAM SESSION)**

**Sub. Code: 6286**

**BPT DEGREE EXAMINATION  
THIRD YEAR  
(Regulations for the candidates admitted from 2017-2018 onwards)  
PAPER VI – CLINICAL CARDIO-RESPIRATORY DISEASES  
Q.P. Code : 746286**

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on: (2 x 15 = 30)**

1. Describe the etiology, pathophysiology of Rheumatic fever and management.
2. Pulmonary Function test and preoperative assessment for a patient for thoracotomy.

**II. Write notes on: (10 x 5 = 50)**

1. Bronchopulmonary segment and respiratory unit.
2. Lung function test.
3. Electrical activity of Myocardium.
4. Thoracotomy.
5. Expiratory residual volume.
6. Stress test.
7. Cardiomyopathy.
8. Massive hemoptysis.
9. Post surgical physiotherapy for open heart surgery.
10. Defibrillation.

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

1. Bradycardia.
2. Asbestosis.
3. Causes for pneumothorax.
4. Ventricular fibrillation.
5. Pump handle movement.
6. Incentive spirometry.
7. Cardio pulmonary resuscitation.
8. Residual volume
9. Acyanotic heart disease.
10. Pulse.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0122]**

**JANUARY 2022  
(AUGUST 2021 EXAM SESSION)**

**Sub. Code: 6286**

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE  
THIRD YEAR- (Regulation from 2017-2018 onwards)  
PAPER VI – CLINICAL CARDIO-RESPIRATORY DISEASES  
Q.P. Code : 746286**

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Explain congenital heart disease and write about management of Pulmonary stenosis.
2. Discuss etiology, clinical features, investigations, complications and management of pleural effusion.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Pulmonary circulation.
2. Upper respiratory tract.
3. Myocardial infarction.
4. Interstitial lung disease.
5. Chambers of Heart.
6. Valve replacement.
7. Blood gas analysis and its use.
8. Post surgical physiotherapy for closed heart surgery.
9. Coronary artery disease.
10. Cardiac Bypass graft surgery

**III. Short answer on:**

**(10 x 2 = 20)**

1. Sino atrial node.
2. Vital capacity.
3. Cardiac massage.
4. Tracheostomy.
5. Pulsus alternans.
6. Anoxia.
7. Spontaneous pneumothorax.
8. Dead space.
9. Chronic obstructive pulmonary disease.
10. Cyanosis.

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August 2011

[KZ 6266]

Sub. Code : 6266

**BACHELOR OF PHYSIOTHERAPY EXAMINATION**

**FOURTH YEAR / SEVENTH SEMESTER**

**CLINICAL ORTHOPAEDICS**

*Q.P. Code : 746266*

**Time : Three hours**

**Maximum : 100 marks**

**ANSWER ALL QUESTIONS**

**I. LONG ESSAYS**

**(2X20=40)**

1. Describe the mechanism of injury, complications and management of supra-condylar fracture of humerus.
2. Outline the etiopathology of Rheumatoid arthritis. Describe the deformities that occur in a rheumatoid hand and its management.

**II. SHORT NOTES**

**(8X5=40)**

1. Periarthritis shoulder.
2. Scaphoid fracture.
3. Sequestrum.
4. Cobb's angle.
5. Cervical rib.
6. Torticollis.
7. Spondylolisthesis.
8. Fracture Patella.

**III. SHORT ANSWERS**

**(10X2=20)**

1. Green stick fracture.
2. Hallux Valgus.
3. Subluxation.
4. Carpal bones.
5. Delayed union.
6. Volkman's sign.
7. Mc. Murrays test.
8. Scapulo-humeral rhythm.
9. Antalgic gait.
10. Hypothenar muscles of hand.

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February 2012

[LA 6266]

Sub. Code: 6266

**BACHELOR OF PHYSIOTHERAPY EXAMINATION  
FOURTH YEAR / SEVENTH SEMESTER  
CLINICAL ORTHOPAEDICS**

*Q.P. Code: 746266*

**Time: Three Hours**

**Maximum: 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2X20=40)**

1. Describe the causes, clinical features and management of recurrent dislocation of the shoulder.
2. Describe the clinical features, complications and management of a patient with fracture of D8 vertebra with paraplegia.

**II. Write notes on:**

**(8X5=40)**

1. DeQuervains disease.
2. March fracture.
3. Ulnar claw hand.
4. Fracture disease.
5. Anterior cruciate ligament.
6. Potts fracture.
7. Shoulder hand syndrome
8. Myositis Ossificans

**III. Short Answers:**

**(10X2=20)**

1. Z-Thumb deformity.
2. Hallux valgus.
3. Guillotine amputation.
4. Mallet finger.
5. Elys test
6. Complications of Scaphoid fracture.
7. Attachments and nerve supply of hamstring muscle.
8. List the complications of Supracondylar fracture of humerus.
9. Clarke's test.
10. Q -angle

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[LB 6266]

AUGUST 2012

Sub. Code: 6266

FOURTH YEAR / SEVENTH SEMESTER BPT EXAM

CLINICAL ORTHOPAEDICS

Q.P. Code: 746266

Time: Three Hours

Maximum: 100 marks

(180 Min) Answer ALL questions in the same order.

I. Elaborate on:

Pages Time Marks  
(Max.)(Max.)(Max.)

- |  |    |    |    |
|--|----|----|----|
| 1. Describe the mechanism of injury, complications and management of posterior dislocation of hip.                 | 19 | 33 | 20 |
| 2. Outline the etiopathology of Ankylosing spondylitis. Describe briefly its management and the role of exercises. | 19 | 33 | 20 |

II. Write Notes on:

- |                              |   |   |   |
|------------------------------|---|---|---|
| 1. Supraspinatus tendonitis. | 3 | 8 | 5 |
| 2. Stress Fracture.          | 3 | 8 | 5 |
| 3. Flat foot.                | 3 | 8 | 5 |
| 4. Compound fracture.        | 3 | 8 | 5 |
| 5. Carpal Tunnel Syndrome.   | 3 | 8 | 5 |
| 6. Club foot.                | 3 | 8 | 5 |
| 7. Symes amputation.         | 3 | 8 | 5 |
| 8. Plantar Fasciitis.        | 3 | 8 | 5 |

III. Short Answers:

- |  |   |   |   |
|--|---|---|---|
| 1. Swan neck deformity.  | 1 | 5 | 2 |
| 2. Thenar muscles of hand.   | 1 | 5 | 2 |
| 3. Name four entrapment neuropathies.                                    | 1 | 5 | 2 |
| 4. Genu valgum.  | 1 | 5 | 2 |
| 5. Anterior drawer test.   | 1 | 5 | 2 |
| 6. Dugas sign.   | 1 | 5 | 2 |
| 7. Bunion.   | 1 | 5 | 2 |
| 8. External rotators of the hip.   | 1 | 5 | 2 |
| 9. Tinel's sign.   | 1 | 5 | 2 |
| 10. Name the fracture and dislocation in Monteggia fracture dislocation. | 1 | 5 | 2 |

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[LC 6266]

FEBRUARY 2013

Sub. Code: 6266

FOURTH YEAR BPT EXAM / SEVENTH SEMESTER

CLINICAL ORTHOPAEDICS

*Q.P. Code: 746266*

**Time: Three Hours  
(180 Min)**

**Maximum: 100 marks**

**I. Elaborate on:** (2X20=40)

1. Outline the etiopathology types, clinical features and management of congenital talipes equino varus.
2. Classify amputations. Briefly describe the indications for amputations. How do you manage a transtibial amputee?

**II. Write notes on:** (8X5=40)

1. Radial club hand.
2. Ulnar claw hand.
3. Fracture clavicle.
4. Ewings sarcoma.
5. Osteochondritis dissecans.
6. Principles of tendon transfer.
7. Anterior dislocation of shoulder.
8. Fracture around the ankle joint.

**III. Short Answers:** (10X2=20)

1. Management of fracture neck of femur.
2. Erbs point.
3. Involucrum.
4. Osteotomy.
5. Hugh Owen Thomas.
6. Cold abscess.
7. Genu valgum.
8. Barton's fracture.
9. Dequervains disease.
10. Triple dislocation.

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[LD 6266]

AUGUST 2013

Sub. Code: 6266

FOURTH YEAR / SEVENTH SEMESTER BPT EXAM

CLINICAL ORTHOPAEDICS

*Q.P. Code : 746266*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. Discuss in detail about Osteomyelitis – Definition, clinical features, types, causes, Management and complications.
2. Outline the etiopathology, types, clinical features and management of Brachial plexus injury.

**II. Write Notes on:**

**(8X5=40)**

1. Osteotomy.
2. Plantar Fasciitis.
3. Myositis Ossificans.
4. RA Hand.
5. Klumpke's Palsy.
6. Colles Fracture.
7. Phantom Limb Pain.
8. Bone Grafting.

**III. Short Answers:**

**(10X2=20)**

1. Define Periarthritis Shoulder. List the clinical features.
2. List the splints used for Upper extremity Peripheral nerve injuries.
3. Straight leg raising test.
4. List the levels of Lower limb Amputation.
5. Difference between dislocation and subluxation.
6. List the causes for shoulder impingement syndrome.
7. Difference between Tided and Untided injuries of hand.
8. Define Q Angle.
9. List the types of Leprosy.
10. Types of CTEV.

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**FOURTH YEAR / SEVENTH SEMESTER BPT EXAM  
CLINICAL ORTHOPAEDICS**

*Q.P. Code : 746266*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. Define, Aetiology, pathology, Stages, clinical features and management for the Periarthritis of shoulder joint.
2. Discuss briefly the aetiology, grades, clinical features, management and complications of ankle joint fracture.

**II. Write Notes on:**

**(8X5=40)**

1. Fracture Clavicle
2. Pre patellar bursitis
3. Flat foot
4. Golfer's elbow
5. Erb's palsy
6. Osteoma
7. Septic Arthritis
8. Ideal Stump

**III. Short Answers:**

**(10X2=20)**

1. Deformities of Rheumatoid Arthritis
2. Bamboo Spine
3. Cervical Rib
4. Wry neck
5. Mal union
6. Carpal Tunnel Syndrome
7. Kernicks Sign
8. Cobb's angle
9. Hallux Valgus
10. Genu Varum

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[LF 6266]

AUGUST 2014

Sub. Code: 6266

**FOURTH YEAR / SEVENTH SEMESTER BPT EXAM  
CLINICAL ORTHOPAEDICS**

*Q.P. Code : 746266*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. Describe the aetiology, pathology, clinical features and management of Ankylosing Spondylosis.
2. Describe briefly the aetiology, clinical features, management and complications of Colle's fracture.

**II. Write Notes on:**

**(8X5=40)**

1. Fracture scaphoid.
2. Bicipital tendinitis
3. Club foot
4. Foot drop
5. Klumpke's paralysis
6. Ewings sarcoma
7. Reflex Sympathic dystrophy
8. Retro Calcaneal bursitis

**III. Short Answer:**

**(10X2=20)**

1. Stages of bone healing.
2. Meta tarsalgia.
3. Excisional arthroplasty.
4. Bennett's fracture.
5. Osteo myelitis.
6. Chest wall deformities.
7. Painful arc syndrome.
8. Myositis ossificans
9. Volkman's ischaemic contracture.
10. Boxer's fracture.

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[LG 6266]

FEBRUARY 2015

Sub. Code: 6266

**FOURTH YEAR / SEVENTH SEMESTER BPT EXAM  
CLINICAL ORTHOPAEDICS**

*Q.P. Code : 746266*

**Time: Three hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss in detail about Osteoarthritis of Knee – Definition, clinical features, types, causes, Management and complications.
2. Outline the causes, types, clinical features, complications and management for Scoliosis.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Recurrent Dislocation of the Shoulder
2. Definitions and causes of Myositis Ossificans
3. Complications of Lower Limb Fracture
4. Mechanism and management of Patellar Tendonitis
5. Causes and complication of Below Elbow Amputation
6. Classifications of Bone Tumor
7. Tarsal Tunnel Syndrome
8. Definitions, causes and management of Torticollis

**III. Short answer on:**

**(10 x 2 = 20)**

1. Define Congenital Dislocation of Hip. List the clinical features.
2. Define Foot Drop. List the clinical feature.
3. List the complications of Patellectomy.
4. List the levels of Upper limb Amputation.
5. Define Dislocation and Subluxation.
6. List the causes for Shoulder Hand Syndrome.
7. Define Claw Hand and list the clinical features.
8. Define Genu Recurvatum.
9. List the types of Fractures.
10. Define Prepatellar Bursitis and list the causes.

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[LH 6266]

AUGUST 2015

Sub. Code: 6266

**B.P.T. DEGREE EXAMINATION  
FOURTH YEAR / SEVENTH SEMESTER  
CLINICAL ORTHOPAEDICS**

*Q.P. Code: 746266*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain in detail about the Total Hip replacement. List the indications and Complications.
2. Define Amputation. Discuss the levels of Amputation, Causes, Types, Complications and management.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Indications and types of Arthrodesis.
2. Causes and management of Rotator Cuff Tear.
3. Management of Congenital Talipes Equinovarus.
4. Swan Neck Deformity.
5. Avascular Necrosis.
6. Erbs Palsy.
7. Mechanism and management of rupture of Achelles Tendon.
8. Types and management of Spondylolisthesis.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Extensor Zones of Hand.
2. Define Deltoid Fibrosis and list the causes.
3. Define Kyphosis and list the complications.
4. Difference between Coxavara and Coxavalga.
5. Define Burns and list the degrees of Burns.
6. List the complications of fracture.
7. Define Plantar Fasciitis and list the clinical features.
8. Central Dislocation of Hip.
9. Carpal Tunnel Syndrome.
10. List the clinical features seen in TB Spine.

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[LI 6266]

FEBRUARY 2016

Sub. Code: 6266

**FOURTH YEAR BPT EXAMINATION  
PAPER III CLINICAL ORTHOPAEDICS**

*Q.P. Code: 746266*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write in detail about the causes, clinical features, investigations and management for Anterior Cruciate Ligament repair.
2. Write in detail about the causes, clinical features, complications and management for spine fracture at the level of C6-C7.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Congenital dislocation of hip.
2. TB Spine.
3. Causes and management of Carpal Tunnel Syndrome.
4. Fracture Shaft of Humerus.
5. Piriformis syndrome.
6. Causes and management of Stump Neuroma.
7. Partial claw hand.
8. Straight leg raising test.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Barton fracture
2. Tenosynovitis
3. Reflex grading
4. Cozen's test
5. Swan neck deformity
6. Mallet finger
7. Thomas test
8. Non union
9. Apprehension sign
10. Ober's test

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[LJ 6266]

AUGUST 2016

Sub. Code: 6266

**FOURTH YEAR BPT EXAMINATION  
PAPER III – CLINICAL ORTHOPAEDICS**

*Q.P. Code: 746266*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Classify Bone tumours. Write in detail about the clinical features, complications and management of Osteosarcoma.
2. Write about Colle's fracture, its clinical features, complications and management.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Neglected CTEV
2. Torticollis
3. Posterior dislocation of hip
4. Ulnar claw hand
5. Ideal stump
6. Rickets
7. Types of pathological gait
8. Anterior cruciate ligament injury

**III. Short answer on:**

**(10 x 2 = 20)**

1. Coxa vera
2. Taylors brace
3. Bankart lesion
4. Gunstoke deformity
5. Q angle in knee
6. Deformities of rheumatoid hand
7. Pseudo gout
8. Cold abscess
9. Erb's palsy
10. Dupuytren's contracture

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[LK 6266]

FEBRUARY 2017

Sub. Code: 6266

**BPT DEGREE EXAMINATION  
FOURTH YEAR  
PAPER III – CLINICAL ORTHOPAEDICS**

*Q.P. Code: 746266*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain in detail about congenital dislocation of Hip, its clinical features, complications and management.
2. Write in detail about Supracondylar fracture of Humerus in a 6 year old child. Briefly write about the complications and management of this fracture.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Radial nerve palsy.
2. Anterior dislocation of shoulder.
3. Fracture of patella.
4. Plantar fasciitis.
5. Injury to coccyx.
6. Below knee amputation.
7. Automatic Neurogenic bladder.
8. Ankylosing spondylitis.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Tennis elbow.
2. Genu valgum.
3. Few complications of Colle's fracture.
4. Compound fracture.
5. Trigger finger.
6. Entrapment neuropathy.
7. Barton's fracture.
8. De Quervain's disease.
9. Types of scoliosis.
10. Smith's fracture.

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[LL 6266]

AUGUST 2017

Sub. Code: 6266

**BPT DEGREE EXAMINATION  
FOURTH YEAR  
PAPER III – CLINICAL ORTHOPAEDICS**

*Q.P. Code: 746266*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Classify Fractures around Neck of Femur. Describe briefly about clinical features management and complications of fracture Neck of Femur.
2. Write about common skeletal manifestation of skeletal Tuberculosis. Mention pathogenesis, clinical features, investigation and management of Potts Spine.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Definitions and X-ray findings of Osteoblastoma.
2. Types of sequestrum.
3. Ewings sarcoma.
4. Pescavus.
5. Adhesive capsulitis of shoulder.
6. Monteggia fracture dislocation.
7. Legg Calve Perthes Disease.
8. Rheumatoid foot.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Hangmans fracture.
2. Trendelenberg gait.
3. Madelung's deformity.
4. Bone graft.
5. Cobb's angle.
6. Sprengel's shoulder.
7. Bennett's fracture.
8. Scapular winging.
9. Nursemaid elbow.
10. Boutonniere Deformity.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LM 6266]

FEBRUARY 2018

Sub. Code: 6266

**BPT DEGREE EXAMINATION  
FOURTH YEAR  
PAPER III – CLINICAL ORTHOPAEDICS**

*Q.P. Code: 746266*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe the aetiology, pathology, clinical features and management in Leprosy.
2. Describe briefly the aetiology, clinical features, management and complications in low back ache.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Spondylosis.
2. Prepatellar tendinitis.
3. Cubitus valgus deformity.
4. Thumb and finger drop.
5. Common peroneal nerve injury.
6. Radial club hand.
7. Reflex Sympathic dystrophy.
8. Retro Calcaneal bursitis.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Stages of bone healing.
2. Prosthesis.
3. Arthroplasty.
4. Bennett's fracture and dislocation.
5. Pescavus.
6. Pelvic tilt.
7. Slump test.
8. Medical management-RA.
9. Paget disease.
10. Boxer's fracture.

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[LN 6266]

AUGUST 2018

Sub. Code: 6266

**BPT DEGREE EXAMINATION  
FOURTH YEAR  
PAPER III – CLINICAL ORTHOPAEDICS**

*Q.P. Code: 746266*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write in detail about the causes, clinical features, investigations and management for rotator cuff tear.
2. Write in detail about the indications, techniques, principles, pre and post-operative management in total knee replacement.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Patella dislocation.
2. Congenital talipes equino varus.
3. Psudek's osteo dystrophy.
4. Causes and management of Pott's spine.
5. Total claw hand.
6. Management of Phantom limb.
7. Mechanism and management of Quadriceps rupture.
8. UMN bladder lesion.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Ape thumb deformity.
2. Phalen's test.
3. Avulsion fracture.
4. Mal union.
5. Swan neck deformity.
6. Tendinitis.
7. Flat foot.
8. Erb's point.
9. Painful arc syndrome.
10. Metatarsalgia.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LO 6266]

FEBRUARY 2019

Sub. Code: 6266

**BPT DEGREE EXAMINATION  
FOURTH YEAR  
PAPER III – CLINICAL ORTHOPAEDICS**

*Q.P. Code: 746266*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Development dysplasia of Hip - Explain in detail.
2. Spondylolisthesis – Explain in detail.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Rolando fracture.
2. Sprengel's deformity.
3. Injury to coccyx.
4. Definition and X-ray findings of Osteoblastoma.
5. Definition, causes and management of Symes amputation.
6. Definition and clinical features of Fragilitas ossium.
7. Rheumatoid foot.
8. Clinical features and management of Sub acromial bursitis.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Ganslens test.
2. Rissers sign.
3. Pawlik harness.
4. Bone graft.
5. Tardy ulnar nerve palsy.
6. Round back.
7. Jersey finger.
8. Fracture-classification.
9. Volkman's Ischaemic contracture.
10. Rotator cuff muscle injury-special test.

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[LP 6266]

AUGUST 2019

Sub. Code: 6266

**BPT DEGREE EXAMINATION  
FOURTH YEAR  
PAPER III – CLINICAL ORTHOPAEDICS**

*Q.P. Code: 746266*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss the mechanism, clinical features, radiological features, and management of anterior dislocation of Shoulder Joint.
2. Discuss the clinical features, investigations and management of fracture of Tibial Condyles.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Monteggia fracture dislocation.
2. Deformities in Poliomyelitis.
3. ACR criteria for Rheumatoid arthritis.
4. Osteosarcoma.
5. TB spine.
6. Septic arthritis.
7. Causes for shoulder pain.
8. Dislocation of patella.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Pott's fracture.
2. Fracture-disease.
3. CTEV Boot.
4. Bampoo spine.
5. Axonotemis.
6. Klumpke's palsy.
7. Compound fracture.
8. Painful arc syndrome.
9. Osteomalacia.
10. Cross union.

\*\*\*\*\*

[LQ 6266]

FEBRUARY 2020

Sub. Code: 6266

**BPT DEGREE EXAMINATION  
FOURTH YEAR  
PAPER III – CLINICAL ORTHOPAEDICS**

*Q.P. Code: 746266*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. What are the causes, clinical features, investigations, management and complications of fracture neck of Femur?
2. Discuss the etiology of brachial plexus injury. Discuss the complications and management of a 3 months old baby who is diagnosed to have Erb's palsy.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Plantar fasciitis.
2. Rheumatoid Hand.
3. Osteoblastoma.
4. Foot drop.
5. Sudeck's Osteo dystrophy.
6. Adhesive capsulitis.
7. Causes for low back pain.
8. Multiple myeloma.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Types of fracture.
2. Radiological features of Colle's fracture.
3. Dislocation.
4. Pen Test.
5. Neuropraxia.
6. Arthroplasty.
7. Genu recurvatum.
8. Costochondritis.
9. Erb's palsy.
10. Straight Leg Raising (SLR) Test.

\*\*\*\*\*

THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY

[LR 1220]

DECEMBER 2020  
(AUGUST 2020 EXAM SESSION)  
BPT DEGREE EXAMINATION

Sub. Code: 6266

FOURTH YEAR  
PAPER III – CLINICAL ORTHOPAEDICS  
*Q.P. Code: 746266*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write in detail about the indications, techniques, pre and post-operative management for Total Hip Replacement.
2. Write in detail about the causes, clinical features, investigations, complications and management of Rheumatoid Arthritis.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Cubital tunnel syndrome.
2. Wrist drop.
3. Definition and causes of Atonic bladder.
4. Chondromalacia patella.
5. Mechanism and management of Pott's fracture.
6. Mechanism and types of Medial menisci injury.
7. Erb's palsy.
8. Structures compressed and management of Cervical rib.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Repetitive stress injury.
2. Boxer's fracture.
3. Mallet thumb.
4. Green stick fracture.
5. Bankart's repair.
6. Tinel's sign.
7. Prone knee bend test.
8. Bursitis.
9. Golfer's elbow.
10. Costochondritis.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0921]**

**SEPTEMBER 2021  
(FEBRUARY 2021 EXAM SESSION)**

**Sub. Code: 6266**

**BPT DEGREE EXAMINATION  
FOURTH YEAR  
PAPER III – CLINICAL ORTHOPAEDICS  
*Q.P. Code : 746266***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describes the mechanism of injury, complication and management of Colle's fracture.
2. Describes the causes, clinical features, investigation and management of Ankylosing Spondylitis.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Torticollis.
2. Thoracic Outlet syndrome.
3. Cold abscess.
4. Fat Embolism.
5. Syme's amputation.
6. Osteomalacia.
7. Radial Nerve injury.
8. Ewing Sarcoma.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Delayed Union.
2. Carpal Bones.
3. Pescavus.
4. Resting position of Hand.
5. Compartmental Syndrome.
6. Klippelfeil syndrome.
7. Dennis Brown Splint.
8. Ely's test.
9. Q angle.
10. Cubitusvarus.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0122]**

**JANUARY 2022  
(AUGUST 2021 EXAM SESSION)**

**Sub. Code: 6266**

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE  
FOURTH YEAR  
PAPER III – CLINICAL ORTHOPAEDICS  
*Q.P. Code : 746266***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describes the causes, clinical features, investigations and management of Osteomyelitis.
2. Describes the causes, types, clinical features and management of Brachial plexus injury.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Supraspinatus tendinitis.
2. Flat foot.
3. Malleolar fracture.
4. Osteoporosis.
5. Types of Poliovirus.
6. Classification of Bone tumor.
7. Lordosis.
8. RA hand.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Jefferson's Fracture.
2. Osteoblastoma.
3. Coxavara.
4. C splint.
5. Rickets.
6. Anterior drawer test.
7. Jersey finger.
8. Phalen's test.
9. Smith fracture.
10. Cortical bone.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[LR 1220]**

**DECEMBER 2020  
(AUGUST 2020 EXAM SESSION)**

**Sub. Code: 6284**

**BPT DEGREE EXAMINATION**

**THIRD YEAR**

**(New regulations for the candidates admitted from 2017-2018 onwards)**

**PAPER IV – CLINICAL ORTHOPAEDICS**

***Q.P. Code : 746284***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss in detail about Osteomyelitis – Definition, clinical features, types, causes, Management and complications.
2. Explain in detail about TB Spine – Definition, clinical features, causes, investigation and management.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Vertical Talus.
2. Myositis Ossificans.
3. Osteogenesis Imperfecta.
4. Klumpkey's Palsy.
5. Colles Fracture.
6. Principles of Tendon transfer.
7. Avascular Necrosis.
8. Tennis Elbow.
9. Carpal Tunnel Syndrome.
10. Classifications of Bone Tumor.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Define Periarthritis Shoulder. List the clinical features.
2. List the splints used for Upper extremity Peripheral nerve injuries.
3. Difference between open fracture and closed fracture.
4. List the levels of Lower limb Amputation.
5. Difference between dislocation and subluxation.
6. List the causes for shoulder impingement syndrome.
7. Difference between Tide and Untided injuries of hand.
8. Cobb's Angle.
9. List the types of Leprosy.
10. Difference between Pescavus and Pesplanus.

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THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY

[BPT 0921]

SEPTEMBER 2021  
(FEBRUARY 2021 EXAM SESSION)

Sub. Code: 6284

**BPT DEGREE EXAMINATION**  
**THIRD YEAR**  
(Regulations for the candidates admitted from 2017-2018 onwards)  
**PAPER IV – CLINICAL ORTHOPAEDICS**  
*Q.P. Code : 746284*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:** **(2 x 15 = 30)**

1. Describe the indications, contraindications and complications of Total Knee Arthroplasty.
2. Classify fracture of Neck of femur. Write a mechanism of injury, management of Neck of Femur fracture.

**II. Write notes on:** **(10 x 5 = 50)**

1. Upper Limb tension test.
2. DeQuervain's disease.
3. Neglected Club foot.
4. Rickets.
5. Wrist drop.
6. Osteosarcoma.
7. Structural Scoliosis.
8. Spondylolisthesis.
9. Bicipital tendinitis.
10. Carpal tunnel syndrome.

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

1. Z plasty.
2. Thompson test.
3. Boxer's fracture.
4. Neuropraxia.
5. Knock Knee.
6. Ischemic Contracture.
7. Painful arc syndrome.
8. Slump test.
9. Jumper's Knee.
10. Hangman's fracture.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0122]**

**JANUARY 2022  
(AUGUST 2021 EXAM SESSION)**

**Sub. Code: 6284**

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE  
THIRD YEAR- (Regulation from 2017-2018 onwards)  
PAPER IV – CLINICAL ORTHOPAEDICS  
*Q.P. Code : 746284***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Describe the Causes, clinical features, investigations and management of Osteoarthritis.
2. Describe the stages, clinical features, investigations and management of Intervertebral disc Prolapse.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Radial club hand.
2. Septic arthritis.
3. Whiplash injury.
4. Patella fracture.
5. Pott's paraplegia.
6. Both bone fracture of Lower limb.
7. Spondylosis.
8. Phantom limb.
9. Fracture healing.
10. Ewing Sarcoma.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Aeroplane splint.
2. Apley scratch test.
3. Piriformis syndrome.
4. Delayed Union.
5. Vertical Talus.
6. Waddling Gait.
7. Three point principles.
8. Anterior cruciate ligament.
9. Madelung's Deformity.
10. McMurray test.

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August 2011

[KZ 6263]

Sub. Code : 6263

**BACHELOR OF PHYSIOTHERAPY EXAMINATION**

**THIRD YEAR  
PAPER V – COMMUNITY MEDICINE**

*Q.P. Code : 746263*

**Time : Three hours**

**Maximum : 100 marks**

**ANSWER ALL QUESTIONS**

**I. LONG ESSAYS (2X20=40)**

1. Define leprosy. Write the WHO classification of leprosy. Discuss the epidemiology and treatment of leprosy. (2+3+10+5)
2. List the principles of health education, methods of communication and the role of health education in rehabilitation services. (5+5+10)

**II. SHORT NOTES (8X5=40)**

1. Distinguish between Marasmus and Kwashiorkor.
2. Risk factors in Coronary Vascular Accidents.
3. Disability Adjusted Life Years.
4. Primordial Prevention.
5. Clinical spectrum of poliomyelitis.
6. Prevention of occupational hazards.
7. Anganwadi worker.
8. Indian Red Cross.

**III. SHORT ANSWERS (10X2=20)**

1. Three cleans in the prevention of neonatal tetanus.
2. Cycles of transmission of Japanese Encephalitis virus.
3. Define health.
4. Define impairment. Give examples.
5. Maternity benefits under ESI act.
6. Hind Khust Nivaran Sangh.
7. Major manifestations in Rheumatic Fever.
8. Two advantages of Community Based Rehabilitation.
9. Advantages of Oral Polio Vaccine.
10. Goitrogens.

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[LC 6263]

**FEBRUARY 2013**  
**THIRD YEAR BPT EXAM**  
**PAPER V – COMMUNITY MEDICINE**  
*Q.P. Code : 746263*

**Sub. Code: 6263**

**Time: Three Hours**  
**(180 Min)**

**Maximum: 100 marks**

**I. Elaborate on:** **(2X20=40)**

1. Write briefly about the epidemiology, including prevention and control of diabetes Mellitus.
2. Define family. What are the different types of families? Write about the role of family in community based rehabilitation.

**II. Write Notes on:** **(8X5=40)**

1. Prevention of foot ulcers in leprosy.
2. Acute flaccid paralysis.
3. National Nutritional Anaemia Prophylaxis Program.
4. Health problems of the geriatric age group.
5. Physical Quality of Life Index.
6. Natural history of disease.
7. World Health Organization.
8. Health messages for the public for control of HIV.

**III. Short Answers:** **(10X2=20)**

1. Immunization against measles.
2. Vector causing filariasis.
3. Name the services under ICDS.
4. Kangaroo mother care.
5. Factors which influence the incubation period in Rabies.
6. Modifiable factors for hypertension.
7. Cancer registry.
8. Body Mass Index.
9. Preventable blindness.
10. Census.

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[LD 6263]

AUGUST 2013

Sub. Code: 6263

**THIRD YEAR BPT EXAM**  
**PAPER V – COMMUNITY MEDICINE**  
*Q.P. Code : 746263*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. What is health education. Write down the principles of health education.  
Discuss the role of health education in rehabilitation services.
2. Define Leprosy. Discuss the epidemiology and management of leprosy.

**II. Write Notes on:**

**(8X5=40)**

1. Mode of transmission of disease with examples.
2. Ergonomics.
3. Prevention for Rheumatic Heart Disease.
4. Risk factors for Cardio Vascular Diseases.
5. Prevention of Occupational Hazards.
6. Communication Barriers.
7. Cancer registry.
8. Primary Health Care.

**III. Short Answers:**

**(10X2=20)**

1. Four Sources of health statistics.
2. Infant Mortality Rate.
3. Preventable Blindness.
4. Acute Flaccid Paralysis.
5. Two vector control measures for Chikungunya.
6. Cases and carriers.
7. Define impairment. Give examples.
8. Secondary attack rate.
9. Triage.
10. Food fortification.

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[LE 6263]

**FEBRUARY 2014**  
**THIRD YEAR BPT EXAM**  
**PAPER V – COMMUNITY MEDICINE**  
*Q.P. Code : 746263*

**Sub. Code: 6263**

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. Describe the epidemiology, prevention and control of Tuberculosis. Add a note on RNTCP
2. List out the nutritional problems in Public Health. Describe in detail the Protein Energy Malnutrition.

**II. Write Notes on:**

**(8X5=40)**

1. Oral Rehydration Salt solution
2. Measles vaccine
3. Vitamin A Prophylaxis Programme
4. UNICEF
5. Foot Care in Diabetes
6. Neurolathyrisms
7. Intra Uterine Contraceptive Device
8. Acculturation

**III. Short Answers:**

**(10X2=20)**

1. Four danger signs of Cancers
2. Any two uses of Incubation Period
3. Any four functions of Primary Health Centre
4. Four health problems due to Industrialization
5. Four dietary sources of Calcium
6. Four modifiable risk factors for Coronary heart Disease
7. Nuclear family
8. Iceberg Phenomenon
9. Physical barriers in Communication
10. Bagassosis

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[LF 6263]

AUGUST 2014

Sub. Code: 6263

**THIRD YEAR BPT EXAM  
PAPER V – COMMUNITY MEDICINE**

*Q.P. Code : 746263*

**Time: Three hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. Classify protein energy malnutrition. List out the causes and preventive measures at family, national and international level.
2. What are the benefits enjoyed by workers under the Employee State Insurance scheme?

**II. Write Notes on:**

**(8X5=40)**

1. Spectrum of disease
2. Principles of health education
3. Primordial prevention
4. Disability adjusted life years
5. Clinical spectrum of poliomyelitis
6. Body Mass Index
7. Balanced Diet
8. Primary Health Care

**III. Short Answer:**

**(10X2=20)**

1. Preplacement examination
2. Vitamin A deficiency
3. Sex ratio
4. Problem Family
5. Herd Immunity
6. GOBIFFF
7. Two vector control measures in dengue
8. Sullivan's index
9. Census
10. Passive smoking

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[LG 6263]

FEBRUARY 2015

Sub. Code: 6263

**THIRD YEAR BPT EXAMINATION  
PAPER V – COMMUNITY MEDICINE**

*Q.P. Code : 746263*

**Time: Three hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write down the principals of health education. Discuss the role of health education in rehabilitation service.
2. Discuss the epidemiology of Leprosy. Describe the rehabilitation measures for a patient with unilateral foot drop due to leprosy.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Diet survey
2. Modes of transmission of diseases
3. Prevention of rheumatic heart disease
4. Role of family in Rehabilitation services
5. Acute Flaccid paralysis
6. National Immunization Schedule
7. Blanket treatment
8. Health effects of smoking

**III. Short answers on:**

**(10 x 2 = 20)**

1. List Four “Vitamin D” rich foods
2. Colostrum
3. Define infant Mortality Rate
4. Four sources of health statistics
5. Name the vector for dengue and list out two breeding sources for the vector
6. Write two functions of UNICEF
7. Bitot’s spots
8. Define food fortification with an example
9. Define Carrier with an example
10. Define quarantine

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[LH 6263]

AUGUST 2015

Sub. Code: 6263

**B.P.T. DEGREE EXAMINATION**  
**THIRD YEAR**  
**PAPER V – COMMUNITY MEDICINE**

*Q.P. Code: 746263*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss in detail the problem of occupational cancer. List out the control measures for control of occupational cancer.
2. Define Handicap. Classify handicapped children. Describe the approaches to prevent handicap in children.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Lead Poisoning.
2. Levels of prevention with examples.
3. Epidemiological triad.
4. Infant mortality rate.
5. Balanced diet.
6. Anganwadi Worker.
7. Risk factors for Hypertension.
8. Bio Medical Waste Management.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Define Health.
2. Two advantages of Community based rehabilitation.
3. Define seminar.
4. Define Human Development index.
5. List out two vector control measures for malaria.
6. Define maternal mortality rate.
7. List out two disadvantages of lecture.
8. Give two uses of growth chart.
9. List out two adverse effects of oral contraceptive pills.
10. Sex ratio.

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[LI 6263]

FEBRUARY 2016

Sub. Code: 6263

**THIRD YEAR BPT EXAMINATION  
PAPER V – COMMUNITY MEDICINE**

*Q.P. Code : 746263*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe the Health Care delivery system in India. Discuss in detail the staff pattern and functions of a Primary Health Centre.
2. Define Accident. List out the types of Accidents. Write a note on the prevention of Accidents.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Census.
2. Nutritional health problems.
3. Sickness absenteeism.
4. Insecticide treated Bed nets.
5. Household purification of water.
6. Types of families.
7. Body Mass Index.
8. Causes and intervention for skeletal fluorosis.

**III. Short answers on:**

**(10 x 2 = 20)**

1. List out two items to be disposed into the red bin as per bio medical waste management rules.
2. List out two breeding places for the vector causing Filaria.
3. Define Epidemiology.
4. List two advantages of role play in health education.
5. Define Ergonomics.
6. Define Disaster.
7. List out two diseases transmitted by housefly.
8. List out four modifiable risk factors for Hypertension.
9. Define incubation period.
10. Index case.

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[LJ 6263]

AUGUST 2016

Sub. Code: 6263

**THIRD YEAR BPT EXAMINATION  
PAPER V – COMMUNITY MEDICINE**

*Q.P. Code : 746263*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain the types of Communication. Discuss the role of physiotherapist in health education.
2. Discuss the health problem due to Industrialization. List out the measures for health protection of workers.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Role of caregivers in community based rehabilitation.
2. Discuss DOTS strategy in control of Tuberculosis.
3. Staff & functions of primary health centre.
4. Food adulteration.
5. Prevention of Occupational Lung Diseases.
6. Types of Families.
7. Pre-placement examination.
8. Quarantine.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Secondary attack rate.
2. Four dietary sources of iron.
3. Cancer registry.
4. Give two examples for food fortification.
5. Acculturation.
6. Define mitigation.
7. Iceberg phenomenon.
8. List four bio medical wastes that are disposed into the blue bin.
9. Couple protection rate.
10. Census.

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[LK 6263]

FEBRUARY 2017

Sub. Code: 6263

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER V – COMMUNITY MEDICINE**

*Q.P. Code : 746263*

**Time: Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss in detail the health problems of the aged and the life style changes needed for healthy ageing.
2. Discuss the various modes of transmission of communicable diseases with suitable examples.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Triage.
2. Risk factors for Diabetes.
3. Disability adjusted life years.
4. Types and advantage of mass media in communication.
5. Causes and prevention of accidents in industry.
6. Broken family.
7. Services delivered in ICDS centre.
8. Rule of halves in hypertension.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Advantages of Oral Polio vaccine.
2. Define impairment with an example.
3. Immunization schedule for an antenatal mother.
4. List out two vector control measures for dengue.
5. Define symposium.
6. Define physical quality of life index.
7. List out two advantages of blackboard.
8. List out two items to be disposed into blue bin as for bio medical waste management rules.
9. Define primary care.
10. Two advantages of case control study design.

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[LL 6263]

AUGUST 2017

Sub. Code: 6263

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER V – COMMUNITY MEDICINE**

*Q.P. Code : 746263*

**Time: Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss the problem of Road Traffic Accidents in India. Explain in detail the risk factors and prevention of Road Traffic Accidents.
2. Discuss all levels of prevention with suitable examples.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Health care delivery system in India.
2. Pre-placement examination.
3. Communication Barrier.
4. Vitamin D deficiency.
5. Health hazards of passive smoking.
6. Anganwadi worker.
7. Prevention of foot ulcers in diabetes.
8. Triage in Disaster management.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Body Mass Index.
2. Index case.
3. Define Herd Immunity.
4. List four dimensions of health.
5. Define maternal mortality rate.
6. Define eradication of a disease with an example.
7. Odds ratio.
8. List four advantages of Intrauterine Contraceptive Device.
9. List four Dietary sources of calcium.
10. List four social problems.

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[LM 6263]

FEBRUARY 2018

Sub. Code: 6263

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER V – COMMUNITY MEDICINE**

*Q.P. Code : 746263*

**Time: Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss in detail the control and prevention of locomotor disability and Rehabilitation strategies under National Vector borne Disease Control Programme.
2. Define Bio-medical waste. List out the sources of health care waste. Discuss in detail the health hazards of health care waste.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Explain the role of physiotherapist in Industrial Health.
2. Aims of Epidemiology.
3. Intra Uterine Contraceptive Devices.
4. Objectives of Antenatal Care.
5. Disinfection of Well.
6. Early signs of Cancer.
7. Post Exposure Prophylaxis.
8. State Blindness control society.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Dimensions of health.
2. What is incidence?
3. Growth rate.
4. Energy requirement of pregnant and lactating mothers.
5. Vaccine for measles.
6. Define health promotion.
7. Four dietary sources of iron.
8. Define disability.
9. Accredited social health activist.
10. Group health education.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LN 6263]

AUGUST 2018

Sub. Code: 6263

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER V – COMMUNITY MEDICINE**

*Q.P. Code : 746263*

**Time: Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss in detail the control and prevention of locomotor disability and rehabilitation strategies under national programme for prevention and control of cancer, diabetes, cardiovascular disease and stroke.
2. What are the benefits enjoyed by workers under the Employee State Insurance Scheme?

**II. Write notes on:**

**(8 x 5 = 40)**

1. Explain the role of physiotherapist in poliomyelitis.
2. Analytical Epidemiology.
3. Oral Contraceptives.
4. Danger signs in Newborn.
5. Effects of Air Pollution.
6. Social Therapy in Sexually Transmitted Diseases.
7. Red ribbon club.
8. Rehabilitation Council of India.

**III. Short answers on:**

**(10 x 2 = 20)**

1. World Health Organisation definition of Health.
2. What is Prevalence?
3. Age Pyramid.
4. Indian Reference Woman.
5. Vaccine for Tetanus.
6. Define Health propaganda.
7. Disability Adjusted Life Years.
8. Define Impairment.
9. Medico Social Worker.
10. Focus group discussion.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LO 6263]

FEBRUARY 2019

Sub. Code: 6263

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER V – COMMUNITY MEDICINE**

*Q.P. Code : 746263*

**Time: Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss in detail the control and prevention of locomotor disability and rehabilitation strategies under National Leprosy Eradication Programme.
2. Discuss the Health care delivery system in India. Discuss the importance of Multi sectoral coordination in primary health care.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Explain the role of physiotherapist in ageing.
2. Principles of Epidemiology.
3. Hormonal Contraceptives.
4. Warning signs in pregnancy.
5. Modern sewage treatment plant.
6. Obesity control and prevention.
7. Personal protective equipments.
8. Institutional based rehabilitation.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Positive Health.
2. What is Surveillance?
3. Sex Ratio.
4. Indian Reference Man.
5. Vaccine for Rabies.
6. Define Health education.
7. Health Adjusted Life Expectancy.
8. Define Handicap.
9. Anganwadi worker.
10. Mass media.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LP 6263]

AUGUST 2019

Sub. Code: 6263

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER V – COMMUNITY MEDICINE**

*Q.P. Code : 746263*

**Time: Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe various levels of prevention and interventions with examples.
2. Discuss the epidemiology of Diabetes Mellitus and write in detail about the control and prevention of the same.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Ice-berg phenomenon.
2. Prevention of Xerophthalmia.
3. Warning signals of poor mental health.
4. Types of communication.
5. Elements of primary health care.
6. UNICEF.
7. Health problems of the aged.
8. Factors affecting infant mortality.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Pearl index.
2. Uses of growth chart.
3. Model menu for a mid-day school meal.
4. Triage.
5. What is Weaning?
6. Still birth rate.
7. Ergonomics.
8. Modifiable risk factors in hypertension.
9. Herd Immunity.
10. Define pandemic.

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[LQ 6263]

FEBRUARY 2020

Sub. Code: 6263

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER V – COMMUNITY MEDICINE**

*Q.P. Code : 746263*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write about the epidemiology, prevention and control of Anterior Polio Myelitis.
2. Define Emporiatrics. Explain in detail the health advice given to international travelers.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Functions of family.
2. Ergonomics.
3. Herd immunity.
4. Oral rehydration solution.
5. Health hazards of noise pollution.
6. National nutritional anaemia prophylaxis programme.
7. Kangaroo mother care.
8. Modifiable risk factors for hypertension.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Four dietary sources of iron.
2. Four physical barriers in communication.
3. List four biomedical wastes that are disposed into the yellow bin.
4. Acculturation.
5. Define Primary Health Care.
6. List four health problems of geriatric population.
7. Advantages of oral polio vaccine.
8. Define cyclo-developmental transmission with an example.
9. List four vector control measures in dengue fever.
10. Couple protection rate.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[LR 1220]**

**DECEMBER 2020  
(AUGUST 2020 EXAM SESSION)**

**Sub. Code: 6263**

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER V – COMMUNITY MEDICINE  
Q.P. Code : 746263**

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe the application of levels of prevention in Poliomyelitis and write in detail the immunization for polio including the Pulse Polio Program.
2. Describe the principles of health education and write about the role of health education in Rehabilitation services.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Anthracosis.
2. Filaria control program.
3. 'Healthful school environment' under school health services.
4. Levels of health care.
5. Role of UNICEF.
6. Sickness absenteeism.
7. Prevention of foot ulcers in Leprosy.
8. Intra uterine contraceptive device.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Primary prevention.
2. Definition of health education.
3. Define 'Health'.
4. List the Vitamin A deficiency diseases.
5. Disablement benefits under the Employees State Insurance Scheme (ESIS).
6. Complications of measles.
7. Disability Adjusted Life Years (DALYs).
8. Census.
9. Cancer registry.
10. Modifiable factors for hypertension.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0122]**

**JANUARY 2022  
(AUGUST 2021 EXAM SESSION)**

**Sub. Code: 6263**

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE  
THIRD YEAR**

**PAPER V – COMMUNITY MEDICINE**

***Q.P. Code: 746263***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss the various modes of transmission of diseases with suitable examples.
2. What is protein energy malnutrition? Describe in detail about the management of protein energy malnutrition.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Physical quality of life index.
2. Define active immunity.
3. Criteria for screening.
4. Risk factors for hypertension.
5. Janani Suraksha Yojana.
6. Fertility factors.
7. Principles of artificial feeding.
8. Types of learning.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Iceberg of disease.
2. Validity.
3. Growth rates.
4. Sex ratio.
5. Family planning.
6. Rooming-in.
7. Toned milk.
8. Ergonomics.
9. Barriers of communication.
10. Odds ratio.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[LR 1220]**

**DECEMBER 2020  
(AUGUST 2020 EXAM SESSION)**

**Sub. Code: 6283**

**BPT DEGREE EXAMINATION  
THIRD YEAR – (Regulation from 2017-2018)  
PAPER III – COMMUNITY MEDICINE  
Q.P. Code : 746283**

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. What are the benefits enjoyed by workers under the Employee State Insurance scheme?
2. List the principles of health education, methods of communication and the role of health education in rehabilitation services.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Lead Poisoning
2. Physical Quality of Life Index
3. Balanced Diet
4. DOTS strategy in Tuberculosis
5. Epidemiological triad
6. Indian red cross
7. Risk factors for Cardio Vascular Diseases
8. Prevention of Occupational Hazards
9. Mode of transmission of disease with example
10. Vision 2020

**III. Short answer on:**

**(10 x 2 = 20)**

1. Cycles of transmission of Japanese Encephalitis virus
2. Define health.
3. Cases and carriers
4. Bagassosis
5. Immunization against measles
6. Food fortification
7. GOBIFFF
8. Two advantages of Community Based Rehabilitation.
9. Four dietary sources of Calcium
10. Nuclear Family.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0921]**

**SEPTEMBER 2021  
(FEBRUARY 2021 EXAM SESSION)**

**Sub. Code: 6283**

**BPT DEGREE EXAMINATION  
THIRD YEAR  
(Regulations for the candidates admitted from 2017-2018 onwards)  
PAPER III – COMMUNITY MEDICINE  
*Q.P. Code : 746283***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Describe the details about National Immunization Schedule for infants, children and pregnant women in India.
2. Define bio-medical waste. List out the sources of health care waste. Discuss in detail the health hazards of health care waste and treatment.

**II. Write notes on:**

**(10 x 5 = 50)**

1. School health service.
2. Juvenile delinquency.
3. Health problems of the aged.
4. Food fortification.
5. Social stress.
6. Consumer protection act.
7. Septic tank.
8. Oxidation pond.
9. Asbestosis.
10. Classification of genetic disorders.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Host.
2. Target couple.
3. Define pandemic.
4. Ergonomics.
5. Rajeev Gandhi Shramik Kalyan Yojna.
6. Workshop.
7. Drug dependence.
8. What is sender?
9. Eugenics.
10. Define Health planning.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0122]**

**JANUARY 2022  
(AUGUST 2021 EXAM SESSION)**

**Sub. Code: 6283**

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE  
THIRD YEAR- (Regulation from 2017-2018 onwards)  
PAPER III – COMMUNITY MEDICINE  
*Q.P. Code : 746283***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Write the details about national rural health mission.
2. Define integrated child developmental services (ICDS).

**II. Write notes on:**

**(10 x 5 = 50)**

1. Dimension of health.
2. Define social medicine.
3. Proportional mortality rate.
4. Uses of screening.
5. Mid-day meal programme.
6. Effects of heat stress.
7. Registration of vital events.
8. Types of communication.
9. Define Network analysis.
10. Principles of primary health care.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Dependency ratio.
2. SARS.
3. Stages of Demographic cycle
4. Domiciliary care.
5. Keratomalacia.
6. Hardy-weinberg law.
7. CARE.
8. Define mean.
9. Lathyrism.
10. Define the Kasturba memorial fund.

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August 2011

[KZ 6259]

Sub. Code : 6259

**BACHELOR OF PHYSIOTHERAPY EXAMINATION**

**THIRD YEAR**

**Paper I – ELECTROTHERAPY – I (LMF)**

*Q.P. Code : 746259*

**Time : Three hours**

**Maximum : 100 marks**

**ANSWER ALL QUESTIONS**

**I. LONG ESSAYS**

**(2X20=40)**

1. What is Biofeedback? Describe in detail the principles of Biofeedback. Add a note on the uses of Biofeedback .
2. What is surged faradism? Describe in detail the mechanism of production of faradic current .Add a note on the physiological and therapeutic effects of faradic current.

**II. SHORT NOTES**

**(8X5=40)**

1. Recording electrodes for electromyography.
2. Neurophysiology of pain.
3. Parameters of Interferential therapy.
4. Propagation of action potential.
5. Diadynamic currents.
6. Physics of Iontophoresis.
7. H-reflex.
8. Therapeutic uses of electricity.

**III. SHORT ANSWERS**

**(10X2=20)**

1. Latency.
2. What is Electromyography?
3. Uses of biofeedback.
4. Sinusoidal current.
5. Resting membrane potential.
6. Factors affecting accuracy of strength duration curve.
7. Shape of interrupted galvanic current.
8. Dangers of Iontophoresis.
9. Motor point.
10. Ions used in Iontophoresis.

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February 2012

[LA 6259]

Sub. Code: 6259

**BACHELOR OF PHYSIOTHERAPY EXAMINATION  
THIRD YEAR  
PAPER I – ELECTROTHERAPY I (LMF)  
Q.P. Code: 746259**

**Time: Three Hours**

**Maximum: 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define Iontophoresis. What type of current is used in Iontophoresis?  
Describe the mechanism of Iontophoresis and the therapeutic uses.
2. Describe the current parameters used in the different types of TENS?  
How does pain modulation occur in each type of TENS? Which type of TENS is best in chronic pain management?

**II. Write notes on:**

**(8 x 5 = 40)**

1. Physiological effects of Interferential Current.
2. Electromagnetic Induction.
3. Electric shock.
4. Diadynamic Current.
5. Describe the clinical implication of SD curve test.
6. Sinusoidal current.
7. Production of therapeutic Ultrasound.
8. Working of Smart Bristow Faradic Coil.

**III. Short Answers:**

**(10 x 2 = 20)**

1. Capacitance.
2. Principles of Biofeedback.
3. Semiconductors.
4. Chronaxie.
5. Fuse.
6. Motor point and Motor unit.
7. Classification of Nerve Injury.
8. Stimulation of denervated muscle.
9. Ohm's law.
10. Checking of apparatus for Electrical muscle stimulation.

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[LA 6259]

AUGUST 2012

Sub. Code: 6259

**THIRD YEAR BPT EXAM  
PAPER I – ELECTROTHERAPY – I (LMF)**

*Q.P. Code: 746259*

**Time: Three Hours**

**Maximum: 100 marks**

**(180 Min) Answer ALL questions in the same order.**

**I. Elaborate on:**

**Pages Time Marks  
(Max.)(Max.)(Max.)**

- |   |    |    |    |
|---|----|----|----|
| 1. Define Pain? What are the types of pain? Describe the gate control theory of pain? | 19 | 33 | 20 |
| 2. Describe Interferential therapy and its parameters in detail?                      | 19 | 33 | 20 |

**II. Write notes on:**

- |  |   |   |   |
|--|---|---|---|
| 1. High Voltage pulsed Galvanic stimulation. | 3 | 8 | 5 |
| 2. Electromyography.                         | 3 | 8 | 5 |
| 3. Iontophoresis.                            | 3 | 8 | 5 |
| 4. Diadynamic current.                       | 3 | 8 | 5 |
| 5. Dangers of therapeutic direct current.    | 3 | 8 | 5 |
| 6. Strength – Duration curve.                | 3 | 8 | 5 |
| 7. Burst mode TENS.                          | 3 | 8 | 5 |
| 8. Russian current.                          | 3 | 8 | 5 |

**III. Short Answers:**

- |                                   |   |   |   |
|-----------------------------------|---|---|---|
| 1. Motor point.                   | 1 | 5 | 2 |
| 2. Rheobase.                      | 1 | 5 | 2 |
| 3. Surged current.                | 1 | 5 | 2 |
| 4. Types of TENS.                 | 1 | 5 | 2 |
| 5. What is Action potential?      | 1 | 5 | 2 |
| 6. Kinked curve.                  | 1 | 5 | 2 |
| 7. Use of Glycopyrronium bromide. | 1 | 5 | 2 |
| 8. Acute Pain.                    | 1 | 5 | 2 |
| 9. Refractory period.             | 1 | 5 | 2 |
| 10. Axanotmesis.                  | 1 | 5 | 2 |

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[LC 6259]

FEBRUARY 2013

Sub. Code: 6259

THIRD YEAR BPT EXAM

PAPER I – ELECTROTHERAPY – I (LMF)

*Q.P. Code: 746259*

**Time: Three Hours**  
**(180 Min)**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. Define Interferential therapy (IFT). Describe the methods of application and the Physiological effects of IFT? Add a note on Contraindications of IFT.
2. Define Interrupted Direct Current (IDC). Describe the effects of IDC on Innervated and Denervated muscle. Differentiate Faradic from IDC.

**II. Write notes on:**

**(8X5=40)**

1. Production of Electromagnetic waves.
2. Pain modulation.
3. Galvanic tetanus ratio.
4. Methods of application of Ultrasound.
5. Moving coil Galvanometer.
6. Surge.
7. Uses of Transformer.
8. Therapeutic effects of High Voltage Pulsed Galvanic Current.

**III. Short Answers:**

**(10X2=20)**

1. Diode valve.
2. H reflex.
3. Feedback Loop.
4. Mutual induction.
5. Ions used in Iontophoresis.
6. Resistance in series and parallel.
7. Nerve conduction test.
8. Describe the type of TENS used for acute pain.
9. Dangers of Iontophoresis.
10. Lenz's law.

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[LD 6259]

AUGUST 2013

Sub. Code: 6259

**THIRD YEAR BPT EXAM**  
**PAPER I – ELECTROTHERAPY – I(LMF)**  
*Q.P. Code : 746259*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. Define faradic current. Write briefly about modified faradic currents and discuss their physiological effects. Add a note surging of faradic current?
2. What are the different types of electrical tests done in electrotherapy department?

**II. Write Notes on:**

**(8X5=40)**

1. Faradic – IDC test.
2. Glidemester effect.
3. Modulation and classification of TENS
4. Sterodynamic IFT
5. Treatment for neuroproxia of Radial nerve.
6. Functional electrical stimulation
7. Fuse
8. Pain gate theory.

**III. Short Answer:**

**(10X2=20)**

1. Types of electric current.
2. Ions
3. Maximum voluntary isometric contraction
4. Orthodromic conduction
5. Jouel's Law
6. Chronaxie
7. Compound motor unit action potential
8. Capacitance
9. F wave
10. Syncopated rhythm

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[LE 6259]

**FEBRUARY 2014**  
**THIRD YEAR BPT EXAM**  
**PAPER I – ELECTROTHERAPY – I(LMF)**  
*Q.P. Code : 746259*

Sub. Code: 6259

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. What is multi vibrator circuit? Discuss its working.
2. Write about S.D.Curve. What is the significance of doing as S.D.Curve?  
Explain the results and prognosis.

**II. Write Notes on:**

**(8X5=40)**

1. Biofeedback and its benefits.
2. Physiological effects of alternating current.
3. Faradic foot bath.
4. Quadriceps inhibition. How would you treat it?
5. Treatment for Bell's palsy left side.
6. Faradic Galvanic test.
7. Chronaxie and Rheobase.
8. Triode valve and its use.

**III. Short Answers:**

**(10X2=20)**

1. Lasers
2. Preparation of a patient for E.S
3. What is erythema and how to prevent it?
4. Neuropraxia.
5. Skin resistance test.
6. Wrist drop early stage.
7. Placement and settings for IFT.
8. TENS.
9. Ion used in inotophoresis.
10. Difference between A.C and D.C

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[LF 6259]

AUGUST 2014

Sub. Code: 6259

**THIRD YEAR BPT EXAM  
PAPER I – ELECTROTHERAPY – I (LMF)**

*Q.P. Code : 746259*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. Define Faradic current. Describe the Physiological effects and Therapeutic effects of Faradic current.
2. Define Interferential current. Describe the Parameters and Therapeutic effects of Interferential current.

**II. Write Notes on:**

**(8X5=40)**

1. Propagation of Action potential.
2. Gate control theory.
3. Burst mode TENS.
4. Principles of Biofeedback.
5. Strength-Duration Curve in Peripheral Nerve Injury.
6. Motor Nerve Conduction test.
7. Testing the Electrical Stimulator apparatus.
8. Contraindications of Iontophoresis.

**III. Short Answer:**

**(10X2=20)**

1. Waveforms used in Interrupted direct current.
2. Dangers of Interferential current.
3. Sinusoidal current.
4. Advantages of TENS.
5. Recording electrodes in Electromyography.
6. Difference between F-wave and H reflex.
7. Physics of Iontophoresis.
8. Earth shock.
9. Motor unit.
10. Effects of Interrupted direct current on innervated and denervated muscle.

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[LG 6259]

FEBRUARY 2015

Sub. Code: 6259

**THIRD YEAR BPT EXAMINATION  
PAPER I – ELECTROTHERAPY – I (LMF)**

*Q.P. Code : 746259*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write about Strength Duration curve. Discuss the Strength Duration curve in a case of a Peripheral Nerve Injury which has started regenerating.
2. Define Transcutaneous Electrical Nerve Stimulation. Describe the parameters, Types, Electrode Placement, Advantages, Disadvantages and Contra Indications of Transcutaneous Electrical Nerve Stimulation.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Radial Nerve Palsy
2. Triode Valve
3. Rectifiers
4. Interferential Therapy
5. Pain Gate Theory
6. Smart Bristow Faradic Coil
7. Electric Shock
8. Faradism Under Pressure

**III. Short answer on:**

**(10 x 2 = 20)**

1. Joule's Law
2. Types of Electric Currents
3. Fuse
4. H reflex
5. Ohm's Law
6. Electro Magnetic Induction
7. Voltmeter
8. Hyper Hydrosis
9. Action Potential
10. Rheostat

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[LH 6259]

AUGUST 2015

Sub. Code: 6259

**B.P.T. DEGREE EXAMINATION**  
**THIRD YEAR**  
**PAPER I – ELECTROTHERAPY – I (LMF)**  
**Q.P. Code: 746259**

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss physiological and therapeutic effects of Interrupted Galvanic current.  
Add a note on contra-indications and dangers of galvanic current.
2. What are the types of peripheral nerve injuries?  
Discuss the selection of current for neuropraxia and neurotmesis types of injury.  
Add a note on factors affecting the regeneration of axon.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Volt meter.
2. Parameters of IFT.
3. Saturday night palsy.
4. Deltoid Inhibition.
5. Types of TENS.
6. Accommodation.
7. Iontophoresis.
8. Resistance in series and parallel.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. All or none law.
2. Ape thumb deformity.
3. Eddy current.
4. Fibrillation potential.
5. Functional electrical stimulator.
6. Tardy ulnar nerve palsy.
7. SD curve on partially denervated muscle.
8. Rheobase.
9. Difference between facial palsy and bell's palsy.
10. Hyperemia.

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[LI 6259]

FEBRUARY 2016

Sub. Code: 6259

**THIRD YEAR BPT EXAMINATION  
PAPER I – ELECTROTHERAPY – I (LMF)**

*Q.P. Code : 746259*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define Interferential Current. Explain in detail types, indication contraindication, Physiological effect and dangers, parameter of Interferential Current.
2. Explain in detail about the Therapeutic and Physiological effects, uses and techniques of treatment with Interrupted Direct Current.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Radial Nerve Palsy.
2. Thermionic Valves.
3. Potentiometer.
4. Transcutaneous Electrical Nerve Stimulation.
5. Faradic Galvanic Test.
6. Deltoid Inhibition.
7. Faradism Under Pressure.
8. Pain Pathway.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Chronaxie.
2. Capacitance.
3. Ions and its uses.
4. Define Farad and Watt.
5. Variable Transformer.
6. Resistance and its types.
7. Kink in Strength Duration Curve.
8. Fatigue Test.
9. Characteristics of Denervated Muscle.
10. Waveforms of Faradic Type Current.

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[LJ 6259]

AUGUST 2016

Sub. Code: 6259

**THIRD YEAR BPT EXAMINATION  
PAPER I – ELECTROTHERAPY – I (LMF)**

*Q.P. Code : 746259*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define transcutaneous electrical nerve stimulation. Describe the parameters, types and physiological effects of transcutaneous electrical nerve stimulation.
2. What is Bio-feedback? Describe the parameters and uses of Bio-feedback.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Safety devices used in electrotherapy.
2. Wallerian degeneration.
3. Faradic footbath.
4. Electromyography.
5. Parameters of interferential therapy.
6. Indications of faradic current.
7. Transformer.
8. Strength duration curve.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Sterodynamic interferential therapy.
2. Motor point.
3. Tinel's sign.
4. Russian current.
5. What is accommodation? How to prevent it?
6. Faradic galvanic test.
7. Ohm's law.
8. H reflex.
9. Dangers of direct current.
10. Neurotemesis.

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[LK 6259]

FEBRUARY 2017

Sub. Code: 6259

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER I – ELECTROTHERAPY – I (LMF)**

*Q.P. Code : 746259*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. What is Strength Duration Curve? Write the procedure of doing Strength Duration Curve. Describe the characteristic of curve in peripheral nerve lesion.
2. Define Faradic current. Describe the surging of Faradic current. Discuss the therapeutic effects of Faradic current.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Gate control theory of pain.
2. Methods of application of interferential therapy.
3. Uses of biofeedback.
4. Fuse.
5. Earth shock.
6. Effects of a direct current.
7. Semiconductors.
8. Indications and contra-indications of interferential therapy.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Rheostat.
2. Glidemeister effect.
3. H reflex.
4. Action potential.
5. Iontophoresis.
6. Acute pain.
7. Advantages of interferential therapy.
8. Impedance.
9. Types of electrodes.
10. Preparation of patient for electrical stimulation.

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[LL 6259]

AUGUST 2017

Sub. Code: 6259

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER I – ELECTROTHERAPY – I (LMF)**

*Q.P. Code : 746259*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define Iontophoresis. Write the physical principle of Iontophoresis. Name the ion used in treating idiopathic hyperhidrosis and explain the treatment procedure of the same.
2. Define Interferential therapy. What is frequency sweep in Interferential therapy? Describe the methods of application and therapeutic effects of Interferential therapy.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Types of transcutaneous electrical nerve stimulation.
2. Neuropraxia.
3. Electrotherapy management of Bell's palsy.
4. Functional electrical stimulation.
5. Interrupted direct current.
6. Moving – coil milliamperemeter.
7. Types and production of faradic current.
8. Describe the electrotherapy modalities used to strengthen the muscle.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Masking effect.
2. Motor unit.
3. Rheobase.
4. Erythema.
5. Latent period.
6. Triode valve.
7. Feedback loop.
8. Cathode.
9. Joule's law.
10. Advantages and disadvantages of strength duration curve.

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[LM 6259]

FEBRUARY 2018

Sub. Code: 6259

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER I – ELECTROTHERAPY – I (LMF)**

*Q.P. Code : 746259*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe the types, parameters, therapeutic effects and advantages of Transcutaneous Electrical Nerve Stimulation.
2. Discuss the various electro diagnostic tests in detail.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Dangers of interferential therapy.
2. Action potential.
3. Neuro muscular junction.
4. Types of impulse.
5. Causes of shock.
6. Diadynamic current.
7. H Reflex.
8. Foot drop.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Suction electrode.
2. Amplitude.
3. Switch.
4. Allodynia.
5. Edema.
6. Cathodal Galvanism.
7. Ohm's law.
8. Effects of chlorine ionisation.
9. Wheal.
10. Electrophoresis.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LN 6259]

AUGUST 2018

Sub. Code: 6259

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER I – ELECTROTHERAPY – I (LMF)**

*Q.P. Code : 746259*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define Bio-feed back. Describe in detail, the principles and uses of Bio-feed back.
2. Working of Smart Bristo coil and physiological effects of Faradic current.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Treatment method of application of TENS for low back pain.
2. Ammeter.
3. Dangers and preventions of therapeutic currents.
4. Explain in detail on Pain gate theory.
5. Treatment method for radial nerve palsy.
6. Faradism under pressure.
7. Nerve conduction test.
8. Physiological effects of IFT.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Rheobase.
2. Checking of apparatus for EMS.
3. S.D. curve.
4. Russian current.
5. Electro myography.
6. Ions used in inotophoresis.
7. Uses of transformer.
8. F wave.
9. Joule's law.
10. Hyper hydrosis.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LO 6259]

FEBRUARY 2019

Sub. Code: 6259

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER I – ELECTROTHERAPY – I (LMF)**

*Q.P. Code : 746259*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define TENS. Describe the methods of application and the physiological effects and contraindications of TENS.
2. Define Faradic current. Physiological, therapeutic effects indication and contraindications of Faradic current.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Bell's palsy.
2. Different theories of pain.
3. Methods of application of iontophoresis.
4. Explain different types of Wave forms.
5. Functional electrical stimulation.
6. Therapeutic and physiological effects of sinusoidal current.
7. Define transformer and types of transformer.
8. Deltoid inhibition.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Choke coil.
2. Faradic galvanic test.
3. H.reflex.
4. Lenz's law.
5. Capacitance.
6. Fuse.
7. Glide meister effect.
8. Orthrodomic conduction.
9. Shock.
10. Foot drop.

\*\*\*\*\*

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LP 6259]

AUGUST 2019

Sub. Code: 6259

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER I – ELECTROTHERAPY – I (LMF)  
Q.P. Code : 746259**

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss the Pain pathway, theories of pain and types of Pain in detail.
2. Explain about the indications, contraindications and methods of application of interrupted direct current.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Types of electrodes used in interferential therapy.
2. Brief intense TENS.
3. Synapse.
4. Sinusoidal waveform.
5. Prevention of shock.
6. Functional electrical stimulation.
7. 'F' wave.
8. Wrist drop.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Frequency.
2. Sweep.
3. Motor unit.
4. Chronaxie.
5. Anodal Galvanism.
6. Labile treatment.
7. Rectifier.
8. Hyperalgesia.
9. Effects of zinc ionization.
10. Electrolytic burns.

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THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY

[LQ 6259]

FEBRUARY 2020

Sub. Code: 6259

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER I – ELECTROTHERAPY – I (LMF)  
Q.P. Code : 746259**

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define Interferential Therapy. Explain its parameters. Describe the methods of application and therapeutic effects of Interferential Therapy.
2. Describe the types of Low frequency current.
  - a) Faradic type current
  - b) Interrupted Galvanic current

**II. Write notes on:**

**(8 x 5 = 40)**

1. What are the Therapeutic uses of electricity?
2. Explain Faradic Foot bath.
3. Sweep frequency.
4. Ions used in Iontophoresis.
5. Bio-feed back.
6. Define Erb's palsy and its management.
7. Types of Nerve lesions.
8. Voltmeter.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Difference between facial palsy and Bell's palsy.
2. Sinusoidal current.
3. Pulse width.
4. Diode valves.
5. Accommodation.
6. Switches.
7. Variable Transformer.
8. F wave.
9. Define Earth shock.
10. Resistance in parallel.

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THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY

[LR 1220]

DECEMBER 2020  
(AUGUST 2020 EXAM SESSION)  
BPT DEGREE EXAMINATION  
FOURTH YEAR

Sub. Code: 6259

PAPER I – ELECTROTHERAPY – I (LMF)  
*Q.P. Code : 746259*

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

**I. Elaborate on:**

(2 x 20 = 40)

1. Discuss the Peripheral Nerve Injuries. Add a note on Physiotherapy management for Radial Nerve Injury.
2. What is Iontophoresis? Describe in detail the principle Iontophoresis. Add a note on the ions, physiological and therapeutic effects of Iontophoresis.

**II. Write notes on:**

(8 x 5 = 40)

1. Indication and Therapeutic uses of Biofeedback.
2. Earth Shock.
3. Burst TENS.
4. Types of electrode used in IFT.
5. Strength Duration Curve.
6. Sinusoidal Current.
7. Quadriceps lack.
8. Faradic coil.

**III. Short answer on:**

(10 x 2 = 20)

1. Rheostat.
2. Rheobase.
3. Fibrillation potential.
4. Ohm's Law.
5. Russian Current.
6. Trigger Point.
7. Kinked Curve.
8. Faradic Galvanic test.
9. Functional Electrical Stimulation.
10. Capacitor.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0921]**

**SEPTEMBER 2021  
(FEBRUARY 2021 EXAM SESSION)**

**Sub. Code: 6259**

**BPT DEGREE EXAMINATION  
THIRD YEAR - (Regulations of 2004-2005 and 2006-2007 admitted candidates are  
merged with 2010-2011)  
PAPER I – ELECTROTHERAPY – I (LMF)  
*Q.P. Code : 746259***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define Faradic current. Physiological, therapeutic effects indication and contraindications of Faradic current.
2. What is Biofeedback? Describe in detail the principles of Biofeedback. Add a note on the uses of Biofeedback.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Bell's palsy.
2. Define transformer and types of transformer.
3. Deltoid inhibition.
4. Neurophysiology of pain.
5. Production of therapeutic Ultrasound.
6. Describe the clinical implication of SD curve test.
7. Physiological effects of Interferential Current.
8. Pain modulation.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Faradic galvanic test.
2. Fuse.
3. H.reflex.
4. Shock.
5. Foot drop.
6. Surging.
7. Resting membrane potential.
8. Motor point.
9. Ohm's law.
10. Ions used in Iontophoresis.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0122]**

**JANUARY 2022  
(AUGUST 2021 EXAM SESSION)**

**Sub. Code: 6259**

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE  
THIRD YEAR - (Regulations of 2004-2005 and 2006-2007 are merged with 2010-2011)  
PAPER I – ELECTROTHERAPY – I (LMF)  
Q.P. Code : 746259**

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define Pain. What are Types of pain? Describe about Theories of Pain. Add note on Modes of TENS used for pain.
2. Define Interrupted Galvanic Current. Describe effects of Interrupted Galvanic Current on Innervated and Denervated muscles, Differentiate Faradic from Galvanic current.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Action potential.
2. Nerve conduction test.
3. Surging of Faradic Current.
4. High voltage pulsed galvanic current.
5. Treatment parameters of interferential therapy.
6. EMG biofeedback.
7. Ions used in Iontophoresis and their clinical indication.
8. Foot drop.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Types of nerve fibers.
2. Erbs palsy.
3. F – wave.
4. What are Medium frequency currents.
5. Synapse.
6. Fuses.
7. Lenz law.
8. Nerve injuries.
9. Contraindications of Iontophoresis.
10. Beat frequency.

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THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY

[LR 1220]

DECEMBER 2020  
(AUGUST 2020 EXAM SESSION)  
BPT DEGREE EXAMINATION  
THIRD YEAR

Sub. Code: 6281

PAPER I – ELECTROTHERAPY – I (LOW & MEDIUM FREQUENCY)

*Q.P. Code : 746281*

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

**I. Elaborate on:**

(2 x 15 = 30)

1. Define Iontophoresis. Type of current used in Iontophoresis. Describe the mechanism of Iontophoresis and its therapeutic uses.
2. What is Biofeedback? Explain in detail about the principle, parameters and uses of Biofeedback.

**II. Write notes on:**

(10 x 5 = 50)

1. Physiological effects of Interferential current.
2. Diadynamic current.
3. Electromagnetic Induction.
4. Faradic-IDC test.
5. Chronaxie and Rheobase.
6. TENS.
7. Radial nerve Palsy.
8. Triode Value and its uses.
9. Pain Pathway.
10. Bells Palsy.

**III. Short answer on:**

(10 x 2 = 20)

1. Stimulation of Denervated muscle.
2. Russian current.
3. Joule's Law.
4. Fibrillation potential.
5. Waveform of Faradic current.
6. Skin resistance Test.
7. Erythema.
8. Capacitance.
9. Resting membrane potential.
10. Kinked Curve.

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THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY

[BPT 0921]

SEPTEMBER 2021  
(FEBRUARY 2021 EXAM SESSION)

Sub. Code: 6281

BPT DEGREE EXAMINATION  
THIRD YEAR

(Regulations for the candidates admitted from 2017-2018 onwards)  
PAPER I – ELECTROTHERAPY – I (LOW & MEDIUM FREQUENCY)  
*Q.P. Code: 746281*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:** (2 x 15 = 30)

1. Define Iontophoresis. Write the physical principle of Iontophoresis. Name the ion used in treating idiopathic hyperhidrosis and explain the treatment procedure of the same.
2. Define Wrist drop. Explain in detail the management of the same.

**II. Write notes on:** (10 x 5 = 50)

1. Iontophoresis.
2. Pain modulation.
3. Galvanic tetanus ratio.
4. Methods of application of Ultrasound.
5. Uses of Transformer.
6. Faradic – IDC test.
7. Glidemester effect.
8. Pain gate theory.
9. Functional electrical stimulation.
10. Faradic foot bath.

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

1. Faradic galvanic test.
2. Fuse.
3. H.reflex.
4. Shock.
5. Foot drop.
6. Uses of biofeedback.
7. Resting membrane potential.
8. Motor point.
9. Ohm's law.
10. Ions used in Iontophoresis.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0122]**

**JANUARY 2022  
(AUGUST 2021 EXAM SESSION)**

**Sub. Code: 6281**

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE  
THIRD YEAR- (Regulation from 2017-2018 onwards)  
PAPER I – ELECTROTHERAPY – I (LOW & MEDIUM FREQUENCY)  
Q.P. Code : 746281**

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Explain in detail the therapeutic and physiological effects, uses, techniques and treatment with Interrupted Direct current.
2. What is S-D Curve? What is the Procedure of doing S-D Curve? Describe the characteristics of curve in Peripheral Nerve Lesions. Add a note on its uses.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Pain Gate Theory.
2. Recording Electrodes in EMG.
3. Saturday night Palsy.
4. HVPGC.
5. Faradic foot bath.
6. Diadynamic Currents.
7. Physiological Effects of Alternating Currents.
8. IFT – Parameters and its Effects.
9. Propagation of Action Potential.
10. Iontophoresis.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Characteristics of Denervated Muscle.
2. Tinel's sign.
3. Types of Electrodes.
4. Fatigue and its causes.
5. Fibrillation Potential.
6. Difference between Bell's Palsy and Facial Palsy.
7. Carpal Tunnel Syndrome.
8. Preparation of patient for ES.
9. Syncopated Rhythm.
10. Glidemeister Effect.

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August 2011

[KZ 6260]

Sub. Code : 6260

**BACHELOR OF PHYSIOTHERAPY EXAMINATION**

**THIRD YEAR**

**Paper II – ELECTROTHERAPY II (HF)**

***Q.P. Code : 746260***

**Time : Three hours**

**Maximum : 100 marks**

**ANSWER ALL QUESTIONS**

**I. LONG ESSAYS**

**(2X20=40)**

1. Define Ultra violet radiation . Explain the various types of generators and its production.
2. Define Ultra sound. Explain the Treatment parameters and Physiological effects of ultrasound.

**II. SHORT NOTES**

**(8X5=40)**

1. Pulsed short wave diathermy
2. Types and properties of laser
3. Laws governing radiation
4. Hydro collator pack
5. Applicator of microwave diathermy
6. Condenser field method
7. Infrared generators
8. Methods of application of cryotherapy

**III. SHORT ANSWERS**

**(10X2=20)**

1. Eddy current
2. Magnetron
3. Drugs used in phonophoresis
4. Structure of skin
5. Theraktin tunnel
6. Erythema
7. Dangers of shortwave diathermy
8. Definition of LASER
9. Physical properties of wax
10. Contraindication of cryotherapy

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[LA 6260]

February 2012

Sub. Code: 6260

**BACHELOR OF PHYSIOTHERAPY EXAMINATION**

**THIRD YEAR**

**Paper II – ELECTROTHERAPY II (HF)**

*Q.P. Code : 746260*

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2X20=40)**

1. Write about the non luminous and luminous generators of IRR, its therapeutic and physiological effects.
2. Define cryotherapy. Explain the methods of application and its therapeutic effects.

**II. Write notes on:**

**(8X5=40)**

1. Spacing.
2. Laws of reflection and refraction.
3. PUVA therapy.
4. Reverse piezo electric effect.
5. Contrast bath.
6. Kromayer lamp.
7. Cable method of Short wave diathermy.
8. Microwave Diathermy.

**III. Short Answers:**

**(10X2=20)**

1. How is the distance between the Ultra violet lamp and patient calculated?
2. Degrees of erythema.
3. X-rays and Gamma rays.
4. Radiant energy.
5. Convection.
6. Calories.
7. Coupling Media.
8. Cavitation and its types.
9. Properties of Laser.
10. Basic principle in treating sprains.

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[LB 6260]

AUGUST 2012

Sub. Code: 6260

THIRD YEAR BPT YEAR

Paper II – ELECTROTHERAPY II (HF)

Q.P. Code : 746260

Time : Three hours

Maximum : 100 marks

(180 Min) Answer ALL questions in the same order.

I. Elaborate on:

Pages Time Marks  
(Max.)(Max.)(Max.)

- |  |    |    |    |
|--|----|----|----|
| 1. Describe short wave Diathermy, its construction, working, methods of application, physiological and therapeutic effects.  | 19 | 33 | 20 |
| 2. Define oscillation. What is capacitance and inductance? Give an example of an oscillating system. How does energy transfer between two circuits take place? Define nodes and antinodes with examples. | 19 | 33 | 20 |

II. Write notes on:

- |   |   |   |   |
|---|---|---|---|
| 1. Lewis hunting reaction.                    | 3 | 8 | 5 |
| 2. Physiological effects of heat.             | 3 | 8 | 5 |
| 3. Laser.                                     | 3 | 8 | 5 |
| 4. Construction and principles of Ultrasound. | 3 | 8 | 5 |
| 5. Hydro collator packs.                      | 3 | 8 | 5 |
| 6. Dosage in ultraviolet rays.                | 3 | 8 | 5 |
| 7. Techniques of cryotherapy.                 | 3 | 8 | 5 |
| 8. Microwave diathermy.                       | 3 | 8 | 5 |

III. Short Answers:

- |  |   |   |   |
|--|---|---|---|
| 1. Micro Massage.                                | 1 | 5 | 2 |
| 2. Wavelength and frequency of Ultrasound.       | 1 | 5 | 2 |
| 3. Why shouldn't a tumor be treated with heat.   | 1 | 5 | 2 |
| 4. Describe an electric shock.                   | 1 | 5 | 2 |
| 5. How is energy density calculated in laser.    | 1 | 5 | 2 |
| 6. Tennis elbow and Golfer's elbow.              | 1 | 5 | 2 |
| 7. Paraffin wax bath.                            | 1 | 5 | 2 |
| 8. Heliotherapy –Define.                         | 1 | 5 | 2 |
| 9. Coupling Media.                               | 1 | 5 | 2 |
| 10. Duration of treatment for plantar fasciitis. | 1 | 5 | 2 |

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[LC 6260]

FEBRUARY 2013

Sub. Code: 6260

THIRD YEAR BPT EXAM

Paper II – ELECTROTHERAPY II (HF)

*Q.P. Code : 746260*

**Time : Three hours  
(180 Min)**

**Maximum : 100 marks**

**I. ELABORATE ON:**

**(2X20=40)**

1. Mechanism of Ultrasound production and methods and application for different conditions with therapeutic parameters.
2. Production of Infra red radiation and its application methods and precautions during treatment

**II SHORT NOTES:**

**(8X5 = 40)**

1. Biological changes due to cryotherapy
2. Indications and contra indications of Shortwave diathermy
3. Transmission of Ultrasound by various coupling media.
4. Mercury vapour lamp
5. Photosensitization
6. Hubbard tank
7. Uses and contraindications of cryotherapy
8. Electromagnetic induction

**III SHORT ANSWER:**

**(10X2 = 20)**

1. Moist heat
2. Erythema
3. Cold laser
4. Cavitation
5. Near field/ Far field
6. Microwave diathermy
7. Eddy currents
8. Refraction
9. Inverse square law
10. Mono polar technique of Short wave diathermy

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[LD 6260]

AUGUST 2013

Sub. Code: 6260

**THIRD YEAR BPT EXAM**

**PAPER II – ELECTROTHERAPY – II (HF)**

*Q.P. Code : 746260*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. Explain the physical effects of heat and the laws governing radiations.
2. Describe the properties of laser. Explain the principles of application of low level laser and physical and therapeutic effects of laser.

**II. Write Notes on:**

**(8X5=40)**

1. Techniques of application in phonophoresis.
2. Electrode placement in Condenser field method in short wave diathermy.
3. Physiological effect and therapeutic effect of ultraviolet radiation.
4. Whirlpool bath
5. Dangers with infrared radiations.
6. Biological effects of pulsed shortwave diathermy.
7. Dip method in paraffin wax application
8. Cold spray

**III. Short Answers:**

**(10X2=20)**

1. Cavitation
2. Convection and radiation
3. Electrostatic field
4. Desquamation
5. Piezo-electric effect
6. Cryokinetics
7. Electric shock
8. Coupling medium
9. Thermostat
10. RICE

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[LE 6260]

**FEBRUARY 2014**  
**THIRD YEAR BPT EXAM**  
**PAPER II – ELECTROTHERAPY – II (HF)**  
*Q.P. Code : 746260*

**Sub. Code: 6260**

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. Describe production of microwave diathermy, its technique of application and dangers.
2. Indications, contraindications and dangers of Ultraviolet radiation (UVR).

**II. Write Notes on:**

**(8X5=40)**

1. PUVA regimen
2. Contrast bath
3. Phonophoresis
4. Physiological effects of cryotherapy
5. Production of ultrasound
6. Paraffin wax bath
7. Therapeutic uses of Infrared radiation
8. Electrode positioning in capacitor field method

**III. Short Answers:**

**(10X2=20)**

1. Conduction
2. List out the techniques of application of LASER
3. How do you prevent the damage to Magnetron
4. Which is converted into vitamin D in skin by Ultraviolet radiation
5. Cosine law
6. Depth of penetration of ultrasound therapy
7. Wavelength of Infrared radiation
8. Define frequency
9. Cryostretch
10. Hydrocollator pack

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[LF 6260]

AUGUST 2014

Sub. Code: 6260

**THIRD YEAR BPT EXAM  
PAPER II – ELECTROTHERAPY – II (HF)**

*Q.P. Code : 746260*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. Define Micro Wave Diathermy. Explain the production, applicators, therapeutic effects and contra indication of MWD.
2. Define moist heat. Explain the apparatus, technique, indication, contra indication and advantages of hydrocollator pack.

**II. Write Notes on:**

**(8X5=40)**

1. Physical effects and transmission of heat.
2. Contrast bath.
3. Therapeutic Effects of ultrasound.
4. Properties and technique of LASER.
5. Pulsed shortwave diathermy.
6. Hubbard tank.
7. Physiological effects of UVR.
8. Generators of IRR.

**III. Short Answer:**

**(10X2=20)**

1. Vapocoolant spray.
2. Power density of laser.
3. Buoyancy.
4. Actinotherapy.
5. Inverse square law.
6. Transducer.
7. Ionization.
8. Ice burn.
9. UVR new dose calculation formula.
10. Variable condenser.

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[LG 6260]

FEBRUARY 2015

Sub. Code: 6260

**THIRD YEAR BPT EXAMINATION  
PAPER II – ELECTROTHERAPY – II (HF)**

*Q.P. Code : 746260*

**Time: Three hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain in detail about the technique of application of “Laser” and its effects in pain relief, wound healing and in musculoskeletal condition.
2. Define heat and explain in detail about physical effects and transmission of heat. Add a note on apparatus, indications and contra indications, technique of application of liquid paraffin wax bath.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Electro magnetic spectrum
2. Modality of treatment and dosage for psoriasis
3. Therapeutic effects of short wave diathermy
4. Techniques of application of ultra sound
5. Physiological effects of ultra violet radiation
6. Dangers and contra indications for cryotherapy
7. Luminous generators
8. Contrast bath

**III. Short answers on:**

**(10 x 2 = 20)**

1. Method of application of SWD
2. Magnetron
3. Oscillator circuit
4. Photo sensitization
5. Triode valve
6. Latent heat of fusion
7. Parameters of ultrasound
8. Eddy currents
9. Plantar warts
10. Thermostat

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[LH 6260]

AUGUST 2015

Sub. Code: 6260

**B.P.T. DEGREE EXAMINATION**

**THIRD YEAR**

**PAPER II – ELECTROTHERAPY – II (HF)**

*Q.P. Code: 746260*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain the production of short wave diathermy with circuit diagram and explain about physiological and therapeutic effects of short wave diathermy.
2. Describe the production of Infrared Radiation. Mention about its type of generators and it's working. Explain about the techniques of the treatment.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Production of microwave diathermy.
2. Excitatory cold.
3. Kromayer lamp.
4. Whirlpool bath.
5. Heat transmission.
6. Laser and its properties.
7. Indications and contra indications of ultra violet radiations.
8. Ultra sound – thermal and non-thermal effects.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Triode valve.
2. Phonophoresis.
3. Damping of oscillations.
4. Lasing medium.
5. Piezo-electric effect.
6. Desquamation.
7. Any four methods of application of paraffin wax.
8. Ice towel method.
9. Coupling medium.
10. Eddy currents.

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[LI 6260]

FEBRUARY 2016

Sub. Code: 6260

**THIRD YEAR BPT EXAMINATION  
PAPER II – ELECTROTHERAPY – II (HF)**

*Q.P. Code : 746260*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Indications, contraindications and dangers of Ultraviolet Radiation (UVR).
2. Describe physiological effects of Ultrasound Therapy, its techniques of application and contraindications.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Difference between nonluminous and luminous generators of IRR.
2. Hydrocollator pack.
3. Transmission of heat.
4. UVR for Skin wounds.
5. Contraindications of Cryotherapy.
6. Physical Properties of LASER.
7. Dangers of Micro Wave Diathermy (MWD).
8. Therapeutic uses of Short Wave Diathermy (SWD).

**III. Short answers on:**

**(10 x 2 = 20)**

1. Depth of penetration of Ultrasound Therapy.
2. Define frequency.
3. Dangers of Infrared radiation.
4. Physical properties of wax.
5. Wavelength of lasers.
6. Cryokinetics.
7. Conduction.
8. Puva apparatus.
9. Duty cycle.
10. Wavelength of Ultraviolet rays B (UVB).

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[LJ 6260]

AUGUST 2016

Sub. Code: 6260

**THIRD YEAR BPT EXAMINATION  
PAPER II – ELECTROTHERAPY – II (HF)**

*Q.P. Code : 746260*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define oscillatory current. Describe in detail about production, physiological and therapeutic effects of SWD.
2. Classify UVR. Explain in detail about different types of lamps used to produce UVR in physiotherapy department.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Techniques of application of SWD.
2. Techniques of application of ultrasound therapy.
3. Couplants and its uses.
4. Construction and working of MWD.
5. Luminous and non-luminous generator.
6. Treatment and dosage for Acne Vulgaris.
7. Contrast bath.
8. Paraffin wax bath.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Lewis hunting reaction.
2. Electrostatic field.
3. Reverse piezo electric effect.
4. Nodes and antinodes.
5. Cavitation.
6. Pigmentation.
7. Super luminous diode laser.
8. Quick ice.
9. Classification of LASERS.
10. Mark: Space Ratio.

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[LK 6260]

FEBRUARY 2017

Sub. Code: 6260

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER II – ELECTROTHERAPY – II (HF)**

*Q.P. Code : 746260*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define Microwave Diathermy. Explain in detail about the indication, contraindication, production, physiological, therapeutic effects and its danger.
2. Describe in detail about principles and techniques of application of Cryotherapy. Add a brief note on indications and contra indications of Cryotherapy.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Spacing in SWD.
2. Laws governing radiation.
3. Magnetron.
4. Treatment parameters of ultrasound.
5. Alpine sun lamp.
6. Ruby laser.
7. Circuit diagram production of SWD and its label.
8. Filters used in UVR.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Test dose.
2. Photosensitizers.
3. Patient circuit.
4. Define Inductothermy.
5. Drugs used in Phonophoresis.
6. Attenuation.
7. Parameters of pulsed Shortwave Diathermy.
8. Frequency and wavelength of SWD.
9. Latent heat fusion.
10. Tridymite formation.

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[LL 6260]

AUGUST 2017

Sub. Code: 6260

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER II – ELECTROTHERAPY – II (HF)**

*Q.P. Code : 746260*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write in detail various methods of Short Wave Diathermy application.
2. Write in detail the production of Laser and its therapeutic effects.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Contrast bath.
2. Hydro collatorpack.
3. Hubbard tank.
4. Contra indications for ultra violet rays.
5. Calculation of dosage in ultra violet treatment.
6. Theraktin tunnel.
7. Drugs used in phonophoresis.
8. Pulsed mode of ultra sound.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Ultrasonic field.
2. Diode valve.
3. Indications of wax therapy.
4. Tuning in Short Wave Diathermy.
5. Indication for contrast bath.
6. Cryo cuff.
7. Pressure sore.
8. Alopecia areata.
9. Sensitizers.
10. PUVA regimen.

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[LM 6260]

FEBRUARY 2018

Sub. Code: 6260

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER II – ELECTROTHERAPY – II (HF)**

*Q.P. Code : 746260*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss in detail about production of ultrasound and explain its various physiological & therapeutic effects of ultrasound. Add a note on Phonophoresis.
2. Define Laser. Describe briefly about properties of Laser. Write in detail about physiological and therapeutic effects of Laser.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Management of low back pain.
2. Pulsed SWD and its application.
3. Physiological effects of heat.
4. Therapeutic effects and uses of cryotherapy.
5. Properties of HF current.
6. Cross fire method in SWD.
7. Vapocoolant spray.
8. Emitters and its types.

**III. Short answers on:**

**(10 x 2 = 20)**

1. PUVA regimen.
2. Minimal erythmal dose.
3. Inverse square law.
4. Indications for UVR.
5. Techniques of application of UST.
6. Indication and contraindications of moist heat packs.
7. Convection.
8. Cryokinetics.
9. Physical properties of paraffin wax.
10. Laws governing radiation.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LN 6260]

AUGUST 2018

Sub. Code: 6260

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER II – ELECTROTHERAPY – II (HF)**

*Q.P. Code : 746260*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define Ultra Violet Radiation. Explain the various types of generators and its production.
2. Define Cryotherapy. Explain the methods of application and its therapeutic effects.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Contraindications of Laser.
2. PUVA Apparatus.
3. Sensitizers.
4. Cable method for SWD.
5. Contrast Bath.
6. Physiological Effects of Heat.
7. Microwave Diathermy.
8. Phonophoresis.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Coupling Media.
2. Thermostat.
3. Types of HF current.
4. Treatment duration of Tennis Elbow.
5. Pulsed diathermy.
6. Electromagnetic spectrum.
7. Gamma rays.
8. Tridmyite formation.
9. Therapeutic uses of IFT.
10. Magnetron.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LO 6260]

FEBRUARY 2019

Sub. Code: 6260

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER II – ELECTROTHERAPY – II (HF)**

*Q.P. Code : 746260*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain in detail about principles, application, types and therapeutic effects of LASER.
2. Write about the non luminous and luminous generators of IRR, its therapeutic and physiological effects.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Piezo electric effect.
2. Pain Gate Theory.
3. Pulsed shortwave.
4. Electromagnetic Spectrum.
5. Use of UVR in Alopecia.
6. Microwave diathermy.
7. Condenser field method.
8. Lewis hunting reaction.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Fuse.
2. Magnetron.
3. Test dose.
4. Pulse repetition rate.
5. Grid.
6. Methods of application of ultrasound.
7. Phonophoresis.
8. Laws governing radiation.
9. Ulcer.
10. Electrode spacing in condenser field method.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LP 6260]

AUGUST 2019

Sub. Code: 6260

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER II – ELECTROTHERAPY – II (HF)**

*Q.P. Code : 746260*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write in detail the production of Ultra sound and write the parameters of Ultra sound for different conditions.
2. Write in detail the production of Ultra violet rays and explain the principles of application of treatment.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Water bag method of ultra sound application.
2. Laws governing radiation.
3. Magnetron.
4. Electro-magnetic spectrum.
5. Therapeutic effects of Ultra sound.
6. Indications for infra red radiation.
7. Test dose.
8. Properties of laser.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Cryo stretch.
2. Hydro collator pack.
3. Collimation.
4. Psoriasis.
5. Erythema.
6. Paraffin wax bath.
7. Dangers of laser.
8. Moist heat therapy.
9. Mono planar technique of short wave diathermy.
10. Cold laser.

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THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY

[LQ 6260]

FEBRUARY 2020

Sub. Code: 6260

**BPT DEGREE EXAMINATION  
THIRD YEAR  
PAPER II – ELECTROTHERAPY – II (HF)**

*Q.P. Code : 746260*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe the superficial heating modalities for patient with Low Backache.
2. Describe in detail about the production, construction and its dangers of SWD.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Laser.
2. Non-thermal treatment.
3. Pain gate theory.
4. Ice-cube method.
5. Preparation of Infra-red lamp.
6. Aims of treatment of Wax bath.
7. Fluorescent lamp.
8. Water bag method.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Magnetron.
2. Crystal laser.
3. Crepe bandage.
4. Capacitor.
5. Acne Vulgaris.
6. Quantum theory.
7. Pulsed Mark: Space ratio.
8. Modalities used for Tennis elbow.
9. Principle of phonophoresis.
10. Papules.

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THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY

[LR 1220]

DECEMBER 2020  
(AUGUST 2020 EXAM SESSION)

Sub. Code: 6260

BPT DEGREE EXAMINATION  
THIRD YEAR – (Regulation form 2013-2014)  
PAPER II – ELECTROTHERAPY – II (HF)

*Q.P. Code : 746260*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define Ultraviolet Radiation. Explain the various types of Generators and its production.
2. Principles of application of Wax bath for Rheumatoid Arthritis and its home programme.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Advantages of Cable method.
2. Physiological and therapeutic uses of Lasers.
3. Luminous and Non luminous Generators.
4. Properties of Waves in Ultrasound.
5. Treatment for Plantar Fasciitis.
6. Production of Microwave Diathermy.
7. Effects of Contrast bath.
8. Water bag method.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Excitatory Cold.
2. Name the modalities used for Ligament Injuries.
3. Scalds.
4. Contraplanar technique for Osteoarthritis.
5. Ice burn.
6. Inductor.
7. Grid method.
8. Pressure Sores.
9. Piezo-electric effect.
10. Coupling Medium.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0921]**

**SEPTEMBER 2021  
(FEBRUARY 2021 EXAM SESSION)**

**Sub. Code: 6260**

**BPT DEGREE EXAMINATION  
THIRD YEAR - (Regulations of 2004-2005 and 2006-2007 admitted candidates are  
merged with 2010-2011)  
PAPER II – ELECTROTHERAPY – II (HF)  
*Q.P. Code : 746260***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe detail about the Ultrasound production & its physiological effects, dosage for chronic pain?
2. Write detail about Composition of Wax bath Therapy unit, Methods of application of Wax, Physiological & Therapeutic effects, indications & contraindication, dangers.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Modulation of pain transmission.
2. Physiological effects of cold.
3. Safety precautions of LASER.
4. Test dosage calculation in UVR.
5. Near field, Far field in US therapy.
6. Therapeutic effects, duration & frequency of treatment, indication of IRR.
7. Types of SWD Electrode, Placement & Spacing Electrodes.
8. Micro wave Diathermy.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Define wavelength ( $\lambda$ ).
2. Coupling agents.
3. Piezo Electric effects.
4. What is contraplanar method?
5. Magnetron.
6. Types of laser.
7. Define Moist heat.
8. Causes for burns following SWD.
9. Cold sensitivity.
10. E-2 dose of UVR.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0122]**

**JANUARY 2022  
(AUGUST 2021 EXAM SESSION)**

**Sub. Code: 6260**

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE  
THIRD YEAR - (Regulations of 2004-2005 and 2006-2007 are merged with 2010-2011)  
PAPER II – ELECTROTHERAPY – II (HF)  
Q.P. Code : 746260**

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define Ultrasound. Explain the production, physiological effects and therapeutic effects of Ultrasound, add note on Clinical application of Ultra Sound.
2. Define Microwave Diathermy. Explain in detail about the Indications, Contraindications, Production, Physiological & Therapeutic effects and its dangers.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Cryo stretch.
2. Theories of pain.
3. Techniques of applications of liquid Paraffin WAX bath.
4. Discuss the properties of Electricity.
5. Physiological effects of heat.
6. Hydro collator packs.
7. Properties and Production of LASER.
8. Hubbard tank.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Electric burn.
2. Triode valve.
3. Nodes & Antinodes.
4. Care of UVR lamp.
5. What is Pulsed Electro Magnetic energy.
6. Dangers of cryotherapy.
7. IRR.
8. Inverse square law.
9. Theraktin tunnel.
10. Lewis – hunting reaction.

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THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY

[LR 1220]

DECEMBER 2020  
(AUGUST 2020 EXAM SESSION)

Sub. Code: 6282

BPT DEGREE EXAMINATION  
THIRD YEAR – (Regulation from 2017-2018)  
PAPER II – ELECTROTHERAPY – II (HIGH FREQ & ACTINOTHERAPY)  
Q.P. Code : 746282

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

**I. Elaborate on:**

(2 x 15 = 30)

1. Define Cryotherapy. Discuss the methods of application and its therapeutic effects.
2. Describe in detail about Principles & therapeutic effects of Pulsed Shortwave Diathermy.

**II. Write notes on:**

(10 x 5 = 50)

1. Techniques of application of SWD.
2. Moist hot packs.
3. Couplants and its uses.
4. Treatment Parameters used in Ultrasound Therapy.
5. Luminous and Non-luminous Generator.
6. Treatment and dosage for Acne Vulgaris.
7. Contrast bath.
8. Alpine sun lamp.
9. Radiation energy and its properties.
10. Water cooled medium pressure Mercury vapor Lamp.

**III. Short answer on:**

(10 x 2 = 20)

1. Electrode spacing for SWD.
2. Electrostatic field.
3. Reverse piezo electric effect.
4. Nodes and Antinodes.
5. Ultrasonic field.
6. Photosensitization.
7. Super luminous diode Laser.
8. Dangers of SWD.
9. Properties of laser.
10. Hubbard Tank.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0921]**

**SEPTEMBER 2021  
(FEBRUARY 2021 EXAM SESSION)**

**Sub. Code: 6282**

**BPT DEGREE EXAMINATION  
THIRD YEAR**

**(Regulations for the candidates admitted from 2017-2018 onwards)  
PAPER II – ELECTROTHERAPY – II (HIGH FREQ & ACTINOTHERAPY)  
Q.P. Code : 746282**

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Explain principles and production of Ultrasound therapy. Describe thermal and non thermal effects of Therapeutic Ultra sound.
2. Write in detail about the production of MWD, physiological & therapeutic effects, dosage and dangers.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Hydro collator pack and its application.
2. Types of Infra red radiation lamps.
3. Physiological & therapeutic effects of UVR.
4. Techniques of application of LASER.
5. Electrode spacing & electrode positioning of SWD.
6. Phonophoresis & contraindication.
7. Physiological effects of heat & laws governing radiation.
8. Application method and contraindication of Waxbath.
9. Cryotherapy in acute ankle sprain.
10. Whirlpool therapy and its precaution.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Drugs used in Phonophoresis.
2. Difference between 1MHZ & 3MHZ frequency in ultrasound.
3. PUVA regimen.
4. Use of butterfly electrode in SWD.
5. Refraction.
6. Properties of High frequency currents.
7. Laws governing radiation.
8. Coherence.
9. Fluidotherapy.
10. Name the sensitizers used in UVR.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[BPT 0122]**

**JANUARY 2022  
(AUGUST 2021 EXAM SESSION)**

**Sub. Code: 6282**

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE  
THIRD YEAR- (Regulation from 2017-2018 onwards)  
PAPER II – ELECTROTHERAPY – II (HIGH FREQ & ACTINOTHERAPY)  
Q.P. Code : 746282**

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Define Ultrasound. Explain the Production, Physiological effects and Therapeutic effects of Ultrasound, add note on Clinical application of Therapeutic Ultra sound.
2. Define Infra Red Radiation. Write about the luminous and non luminous generators of IRR, and its physiological & therapeutic effects. Mention about precautions of IRR.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Difference between Capacitance and Inductance.
2. Ruby LASER.
3. Indications and contraindications of Contrast Bath.
4. Production of SWD and its uses.
5. Modalities of treatment and dosage for Psoriasis.
6. Methods of application of Wax therapy.
7. Cryokinetics.
8. Laws governing Radiation.
9. Physiological effects of Microwave Diathermy.
10. Modalities for Osteoarthritis Knee.

**III. Short answer on:**

**(10 x 2 = 20)**

1. Electric burn.
2. Triode valve.
3. Nodes & Antinodes.
4. Care of UVR lamp.
5. What is Pulsed Electro Magnetic energy.
6. Joule's law.
7. Types of pain Contra indications of MWD.
8. Whirl pool bath.
9. Electro magnetic spectrum.
10. Duty Cycle.

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