

[KW 426]

MARCH 2010

Sub. Code: 2332

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

(Regulations for candidates admitted from 2008-2009 Session onwards)

BRANCH I – MEDICAL SURGICAL NURSING

01 – CARDIO VASCULAR AND THORACIC NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302332

Time: Three Hours

Maximum: 75 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. a) Illustrate common form of congenital heart diseases and the management. (10)
- b) Detail on collaborative management of valvular heart diseases. (10)
2. a) Explain the different types of aneurysms. (10)
- b) Draw a nursing care plan of a patient following aortic aneurysm repair. (10)

II. Write notes on:

(7 x 5 = 35)

1. Health education of patient with permanent pacemaker.
2. Various methods of oxygen administration and nursing consideration.
3. Nursing care of patient with intercostal drainage.
4. Pulmonary rehabilitation.
5. Mobile coronary care unit.
6. Post operative nursing care after coronary artery bypass graft.
7. Post resuscitation care.

[KX 426]

SEPTEMBER 2010

Sub. Code: 2332

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

(Regulations for candidates admitted from 2008-2009 Session onwards)

BRANCH I – MEDICAL SURGICAL NURSING

01 – CARDIO VASCULAR AND THORACIC NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302332

Time: Three Hours

Maximum: 75 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. a) Elaborate on haemodynamic alterations in Tetralogy of Fallot's.
b) Formulate five priority nursing diagnoses for the first 48 hours following coronary artery bypass grafting.
2. a) Illustrate on various types of cardio myopathies.
b) Enlist the indications and contraindications of cardiac transplantation.
c) Explain the respiratory and cardiac complications and the preventive measures following open heart surgery.

II. Write notes on:

(7 x 5 = 35)

1. Drugs used in advanced cardiac life support.
2. Cardiac rehabilitation.
3. Nursing care of patient after right pneumonectomy.
4. Hemodynamic monitoring.
5. Recent advancement in cardio thoracic surgeries.
6. Nurse's role in management of Intensive cardiac care unit.
7. Complementary / Alternative therapies.

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

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BRANCH I – MEDICAL SURGICAL NURSING

01 – CARDIO VASCULAR AND THORACIC NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302332

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. Mr. X, aged 65 years is admitted with complaints of Orthopnea and Pedal oedema in ICCU and is diagnosed to have Cardiomyopathy.
 - a) Differentiate the types of Cardiomyopathy.
 - b) Discuss the diagnostic investigation to find out Cardiomyopathy.
 - c) Draw a nursing care plan to provide care for Mr. X, when he is subjected to heart transplantation.
2.
 - a) Explain the pathophysiology of Adult Respiratory Distress Syndrome.
 - b) Describe the alternative modes of ventilation.
 - c) Elaborate the nursing management of a client on mechanical ventilation.

II. Write notes on:

(10 x 6 = 60)

1. Defibrillation.
2. Collaborative management of pulmonary Embolism.
3. Percutaneous coronary intervention.
4. Congenital cyanotic heart disease.
5. Nursing management of patient with thoracic surgery.
6. Pathophysiology of congestive cardiac failure.
7. Nurses role in the management of intensive coronary care unit or intensive cardio thoracic unit.
8. Pleural drainage.
9. Mechanical ventilator.
10. Bronchodilators.

**M.Sc. (NURSING) DEGREE EXAMINATION
SECOND YEAR
(Regulations for candidates admitted from 2008-2009 Session onwards)**

BRANCH I – MEDICAL SURGICAL NURSING

01 – CARDIO VASCULAR AND THORACIC NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302332

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

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

- | | |
|--|---------------------|
| 1. Mrs. Kamal, a 60 years old is admitted in ICU with diagnosis of Mitral Valve Prolapse.
a) Write the pathophysiology, clinical manifestations and diagnostic evaluation with rationale.
b) Describe valvular heart disease leading to development of right ventricular failure.
c) Explain the surgical management for advanced stages of mitral valve prolapse with post-operative care. | 15 40 min. 20 |
| 2. Mr. Rajan, a 65 years old man was admitted with a diagnosis of Chronic Obstructive Pulmonary Disease.
a) Define Chronic obstructive pulmonary disease and discuss ineffective airway clearance.
b) Explain the pathophysiology and complications of chronic obstructive pulmonary disease.
c) Plan nursing care on four priority health care problems using nursing process approach. | 15 40 min. 20 |

II. Write notes on :

- | | |
|--|-------------------|
| 1. ECG changes associated with acute coronary syndrome with diagram. | 3 10 min. 6 |
| 2. Pace-maker. | 3 10 min. 6 |
| 3. Pulmonary function studies. | 3 10 min. 6 |
| 4. Flail chest. | 3 10 min. 6 |
| 5. Tetralogy of Fallot. | 3 10 min. 6 |
| 6. Cardio pulmonary resuscitation. | 3 10 min. 6 |
| 7. Normal ABC values and management of respiratory Alkalosis. | 3 10 min. 6 |
| 8. Arrhythmias Caused by electrolyte imbalance. | 3 10 min. 6 |
| 9. Functional changes in myocardial infarction. | 3 10 min. 6 |
| 10. Types and management of Aortic Aneurysm. | 3 10 min. 6 |

**M.Sc. (NURSING) DEGREE EXAMINATION
SECOND YEAR**

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01 – CARDIO VASCULAR AND THORACIC NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302332

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages (Max.)	Time (Max.)	Marks (Max.)
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- | | | | |
|---|----|---------|----|
| 1. a) List out the causes of Endocarditis. | 15 | 40 min. | 20 |
| b) Mention the risk factors for Infective Endocarditis. | | | |
| c) Explain the management of Infective Endocarditis in detail including its preventive measures. | | | |
| 2. a) What is Aneurysm? What are the etiological classification of Arterial Aneurysm? | 15 | 40 min. | 20 |
| b) How will you provide Quality care for the first 48 hours after repairing an Abdominal Aortic Aneurysm. | | | |

II. Write notes on :

- | | | | |
|--|---|---------|---|
| 1. Cardiac cycle. | 4 | 10 min. | 6 |
| 2. Mechanical ventilation. | 4 | 10 min. | 6 |
| 3. Arterial blood gas analysis. | 4 | 10 min. | 6 |
| 4. CPR. | 4 | 10 min. | 6 |
| 5. Nursing Audit. | 4 | 10 min. | 6 |
| 6. Angiogram. | 4 | 10 min. | 6 |
| 7. Cardiac rehabilitation. | 4 | 10 min. | 6 |
| 8. Pulmonary Function Test. | 4 | 10 min. | 6 |
| 9. ECG changes associated with acute coronary syndrome with diagram. | 4 | 10 min. | 6 |
| 10. Heart transplantation. | 4 | 10 min. | 6 |

M.Sc. (NURSING) DEGREE EXAMINATION**SECOND YEAR****(Regulations for candidates admitted from 2008-2009 Session onwards)****BRANCH I – MEDICAL SURGICAL NURSING****01 – CARDIO VASCULAR AND THORACIC NURSING****PAPER III – CLINICAL SPECIALITY – II****Q.P. Code: 302332****Time: Three Hours****Maximum: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :**

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

- | | | | |
|--|----|---------|----|
| 1. Mrs. Devi, a 55 years old woman is admitted in the Respiratory Intensive Care Unit with the diagnosis of acute asthma:
a) Explain triggers of asthmatic attacks.
b) Discuss the pathophysiology with classifications.
c) Correlate clinical manifestations with arterial blood gas results with an acute asthmatic attack.
d) Patient teaching related to drug therapy. | 17 | 40 min. | 20 |
| 2. You are posted in the Cardiac Emergency Unit, answer the following questions:
a) List down Cardiac Emergencies.
b) Discuss on dysrhythmias and their managements.
c) Describe the role of nurse in Cardiac Emergencies. | 17 | 40 min. | 20 |

II. Write notes on:

- | | | | |
|--|---|---------|---|
| 1. Echo Cardiography. | 4 | 10 min. | 6 |
| 2. Video assisted thoracic surgery. | 4 | 10 min. | 6 |
| 3. Defibrillation. | 4 | 10 min. | 6 |
| 4. Pulmonary edema. | 4 | 10 min. | 6 |
| 5. Haemodynamic monitoring. | 4 | 10 min. | 6 |
| 6. Mechanical Ventilator. | 4 | 10 min. | 6 |
| 7. Inotropic agents. | 4 | 10 min. | 6 |
| 8. Percutaneous Coronary Intervention. | 4 | 10 min. | 6 |
| 9. Management of cardiogenic shock. | 4 | 10 min. | 6 |
| 10. Pathology of Eisenmenger complex. | 4 | 10 min. | 6 |

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

(Regulations for candidates admitted from 2011-2012 Session onwards)

BRANCH I – MEDICAL SURGICAL NURSING

01 – CARDIO VASCULAR AND THORACIC NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302332

Time: Three Hours

Maximum: 100 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. a) Define respiratory failure and its types.
b) Chart the pathophysiology of respiratory failure.
c) Discuss the emergency management and nursing care of client with acute respiratory failure.
2. a) Classify the valvular disorders and discuss the management modalities in detail.
b) Elaborate the nurses role in rehabilitation of client following valvular surgery.

II. Write notes on:

(10 x 6 = 60)

1. Raynauds phenomenon.
2. Defibrillation.
3. Post cardiac catheterization care.
4. Recent trends in cardiovascular and thoracic surgery.
5. Pulmonary function tests.
6. Acute care of client with myocardial infarction.
7. Coarctation of aorta.
8. Role and responsibility of the nurse related to administration of diuretics and anticoagulants.
9. Any 6 post cardiac surgery complications and its preventive measures.
10. Nurses role in infection control in coronary care unit.

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

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BRANCH I – MEDICAL SURGICAL NURSING

01 – CARDIO VASCULAR AND THORACIC NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302332

Time: Three Hours

Maximum: 100 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. a) What is mechanical ventilation?
b) Describe the different modes of ventilation
c) Explain the role of the nurse to follow the principles of ventilation to prevent its complications
2. Mrs. Selvi, 36 years old is admitted with the diagnosis of myocardial infarction
a) Define Myocardial Infarction
b) Enumerate the pathophysiology and clinical manifestations of myocardial infarction.
c) Explain the management of Mrs. Selvi for the first 48 hours

II. Write notes on:

(10 x 6 = 60)

1. Cardiac Catheterization.
2. Ebstein's anomaly.
3. Embryological development of heart.
4. Burn out syndrome.
5. Arrhythmias.
6. Electrocardiography.
7. Chest physiotherapy.
8. Cor Pulmonale.
9. Trends and issues in the field of cardiology.
10. Pulmonary embolism.

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

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BRANCH I – MEDICAL SURGICAL NURSING

01 – CARDIO VASCULAR AND THORACIC NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302332

Time: Three Hours

Maximum: 75 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. a. Define Chronic Obstructive Pulmonary Disease (COPD).
b. Discuss the pathophysiology and clinical manifestations of COPD.
c. Discuss the nursing care plan for patient with COPD.
2. a. Define congenital heart disease.
b. Discuss the cyanotic and acyanotic heart diseases.
c. Explain the nursing management of a patient with congenital heart disease.

II. Write notes on:

(7 x 5 = 35)

1. ABG Analysis.
2. Management of patient with cardiogenic shock.
3. Post-operative care after CABG.
4. Mobile coronary care unit.
5. Inotropic agents.
6. Ethical and Legal Issues related to Cardiac Nursing.
7. Heart Transplantation.

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

(Regulations for candidates admitted from 2011-2012 Session onwards)

BRANCH I – MEDICAL SURGICAL NURSING

01 – CARDIO VASCULAR AND THORACIC NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302332

Time: Three Hours

Maximum: 75 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Mr. 'X' 58 year old is admitted with the diagnosis of congestive heart failure (CHF).
 - a) Explain the types and pathophysiology of congestive heart failure.
 - b) Discuss the medical management for Mr. 'X'.
 - c) Prepare nursing care plan for Mr. 'X'.
2.
 - a) Pulmonary edema.
 - b) Pulmonary Rehabilitation.
 - c) Advanced cardiac life support and nurses role.

II. Write notes on:

(7 x 5 = 35)

1. Hyperlipidemia.
2. Hypertrophic Cardiomyopathy.
3. Antihypertensives.
4. Cardiac markers.
5. Care of patient with intercostal drainage.
6. Septal defects.
7. Types of Aneurysms.

**M.Sc. (NURSING) DEGREE EXAMINATION
SECOND YEAR**

(Regulations for candidates admitted from 2011-2012 Session onwards)

BRANCH I – MEDICAL SURGICAL NURSING

01 – CARDIO VASCULAR AND THORACIC NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302332

Time: Three Hours

Maximum: 75 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Mr. X, 45 years old is diagnosed to have pleural effusion and he is admitted for medical management.
 - a. Explain the etiology and pathophysiology of pleural effusion.
 - b. Discuss the medical management of Mr. X.
 - c. Explain the nursing management for Mr. X.
2.
 - a. Define Hypertension
 - b. Discuss the pathophysiology & clinical manifestations of a patient with Hypertension.
 - c. Explain the medical management of a patient with Hypertension.
 - d. Discuss the nursing management of a patient with Hypertension.

II. Write notes on:

(7 x 5 = 35)

1. Oxygen Delivery System.
2. Tracheostomy Care.
3. Care of a patient on Mechanical Ventilator.
4. Aortic Aneurysm.
5. Pulmonary Embolism.
6. Cardiac Rehabilitation.
7. Stress management in ICU.

M.Sc., (NURSING) DEGREE EXAMINATION

SECOND YEAR

(Regulations for candidates admitted from 2011-2012 Sessions onwards)

PAPER II – CLINICAL SPECIALITY - II

BRANCH I – MEDICAL SURGICAL NURSING

01 – CARDIO VASCULAR AND THORACIC NURSING

Q.P. Code: 302332

Time: Three Hours

Maximum: 75 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. a) Explain the classification and management of arrhythmias in detail.
b) Discuss the role of nurse in caring for the patients with pace maker.
2. Mr. Moorthy 45 years old man met with an accident and was brought to emergency department with chest trauma. His Bp was 90/70 and pulse was 108/mt. chest X- ray showed 6, 7 & 8th Rib injuries on RT side of the chest and he was posted for emergency surgery.
a) Explain flail chest and discuss the emergency management.
b) Prepare nursing care plan for Mr. Moorthy during the first 48 hours.

II. Write notes on:

(7 x 5 = 35)

1. Hypertension.
2. Angina Pectoris.
3. Antithrombolytic agents.
4. Cardiopulmonary Resuscitation.
5. Cardiac Enzymes.
6. Pleural Effusion.
7. Cardiac Tamponade.

[LI 426]

APRIL 2016

Sub. Code: 2332

**M.Sc., (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)
SECOND YEAR
PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
01 – CARDIO VASCULAR AND THORACIC NURSING**

Q.P. Code: 302332

Time: Three hours

Maximum: 75 Marks

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

1. a) Coronary circulation.
b) Pharmacological interventions of Acute Myocardial Infarction.
c) Explain the role of the nurse in the case of patient with Pacemaker.
2. Mr. Manickam 62 years old clerk presented with complaints of Chest pain and breathlessness on exertion for the past 6 months. He was diagnosed as Myocardial Infarction following the investigations and underwent Coronary Artery Bypass Graft Surgery. You are assigned on the 2nd postoperative day to care for him.
 - a) Post operative complications of Bypass Surgery.
 - b) Explain the Post operative nursing management for Mr. Manickam.
 - c) Health education on home care for Mr. Manickam.

II. Write notes on: (7 x 5 = 35)

1. Tetralogy of Fallot.
2. Pulmonary Rehabilitation.
3. Dilated Cardiomyopathy.
4. Postoperative Pneumonectomy Care.
5. Heart failure symptoms and causes.
6. Cardiac Assessment.
7. Dietary management of Hyperlipidemia.

[LJ 426]

OCTOBER 2016

Sub. Code: 2332

**M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)
SECOND YEAR
PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
01 – CARDIO VASCULAR AND THORACIC NURSING**

Q.P. Code: 302332

Time: Three hours

Maximum: 75 Marks

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

1.
 - a) Define acyanotic and cyanotic conditions of the heart.
 - b) Explain the pathophysiology and clinical manifestations in tetralogy of fallot.
 - c) Explain the nursing management of a patient with cyanotic congenital heart disease.
2. Mr. 'M', 65 years old man met with an accident and was brought to emergency department with chest trauma. His blood pressure was gradually reducing and was below 70 mm Hg. and the pulse rate was 110 / mt. Chest X- ray showed rib fractures from 2- 8 on the right side of the chest.
 - a) Explain the structures below these ribs and the nursing alerts related to management.
 - b) Explain Flail chest and discuss the emergency management.
 - c) Prepare nursing care plan for Mr. 'M' during the first 48 hours using nursing process.

II. Write notes on: **(7 x 5 = 35)**

1. List the causes and clinical manifestations in subacute bacterial endocarditis.
2. Indications and management of patients requiring cardioversion.
3. Nursing management of patient following percutaneous coronary intervention.
4. Breathing exercises including pursed lip exercise.
5. Uses, advantages, disadvantages of CPAP and BiPAP modes of ventilation.
6. Triaging and acute management of patients with myocardial infarction.
7. Observations and management of patients with ventricular fibrillation.

[LK 426]

MAY 2017

Sub. Code: 2332

**M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)
SECOND YEAR
PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
01 – CARDIO VASCULAR AND THORACIC NURSING**

Q.P. Code: 302332

Time: Three hours

Maximum: 75 Marks

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

1. a) Define Rheumatic Heart Disease (RHD).
b) Write the cause, pathophysiology and clinical manifestations of Rheumatic Heart Disease (RHD).
c) Explain the perioperative nursing care of patient with valve replacement surgery.
2. Mr. X aged 72 years admitted in oncology unit with the diagnosis of lung cancer. Explain the following:
a) Types, risk factors, pathophysiology and management of lung cancer.
b) Draw a post operative nursing care plan for Mr. X who has undergone pneumonectomy.

II. Write notes on: **(7 x 5 = 35)**

1. Management of tuberculosis.
2. Vasodilators.
3. Abnormal heart sounds.
4. Digitalis toxicity symptoms.
5. Role of nurse in prevention of deep vein thrombosis (DVT).
6. Coarctation of aorta.
7. Defibrillation.

[LL 426]

OCTOBER 2017

Sub. Code: 2332

**M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)
SECOND YEAR
PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
01 – CARDIO VASCULAR AND THORACIC NURSING**

Q.P. Code: 302332

Time: Three hours

Maximum: 75 Marks

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

1. a) Define bronchiectasis, list its etiology, explain the pathophysiology, clinical manifestations and medical management of these patients.
b) Apply and analyze the nursing needs and interventions for patients with bronchiectasis using nursing process.
2. a) What are the etiologic factors of patients with aortic stenosis and regurgitation?
b) List the clinical manifestations and explain the pathophysiology in patients with aortic stenosis.
c) Explain the health education required for patients with mechanical valve replacement.

II. Write notes on: **(7 x 5 = 35)**

1. List signs, symptoms and management of patients with hyperkalemia.
2. Pulmonary function test.
3. Health education for patients on permanent pacemaker.
4. Indications, precautions and complications in administering, Inj. protamine sulphate.
5. Dilated Cardiomyopathy.
6. Causes, clinical manifestations and management of stress in cardiac surgery patients.
7. Pharmacological and non-pharmacological measures in pain management of patients following cardiac surgery.

[LM 426]

MAY 2018

Sub. Code: 2332

**M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)
SECOND YEAR
PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
01 – CARDIO VASCULAR AND THORACIC NURSING**

Q.P. Code: 302332

Time: Three hours

Maximum: 75 Marks

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

1. a) List the different types of angina, its clinical manifestations and the medical management of these conditions.
b) Mr. 'X' is 35 yrs old and is a smoker. Both his parents are diabetics but do not have history of heart disease. Apply nursing process in the management of Mr. 'X' with unstable angina and list the topics for health education.
2. a) Explain cardiac rehabilitation. List the lifestyle teachings for patients with coronary artery disease using principles of health education.
b) List the various risk factors for coronary artery disease and explain the process of physical conditioning for cardiovascular efficiency through exercises.

II. Write notes on: **(7 x 5 = 35)**

1. Management of a child with cyanotic spell.
2. List the eight signs in patients with aortic regurgitation.
3. Complications following the use of cardiopulmonary bypass pump.
4. Complementary and alternative therapy for patients with coronary artery disease.
5. Anti-coagulation therapy in patients with valve replacement.
6. List the sedatives and tranquilizers used in immediate post-operative period and the nurses alert for each.
7. Digitalis toxicity symptoms.

M.Sc. (Nursing) DEGREE EXAMINATION
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SECOND YEAR

PAPER II – CLINICAL SPECIALITY – II

BRANCH I – MEDICAL SURGICAL NURSING

01 – CARDIO VASCULAR AND THORACIC NURSING

Q.P. Code: 302332

Time: Three Hours

Maximum: 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Definition, etiology and pathophysiology of congestive cardiac failure.
b) Differentiate the clinical manifestations between the types of congestive cardiac failure.
c) Write the complications, medical and nursing management of congestive cardiac failure.
2. a) Differentiate between pneumo-thorax and hemo-thorax.
b) Types, etiology and clinical manifestations of pneumo-thorax.
c) Medical and nursing management of patient diagnosed as pneumo-thorax.

II. Write notes on:

(7 x 5 = 35)

1. Trends and issues in cardiovascular and thoracic nursing.
2. Treadmill test.
3. ABG analysis.
4. Classification, clinical manifestations, complications and surgical management of aortic aneurysm.
5. Types of shock and its management.
6. Ventricular septal defect.
7. Drugs used in cardiac emergencies.

[LO 426]

MAY 2019

Sub. Code: 2332

M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)

SECOND YEAR

PAPER II – CLINICAL SPECIALITY – II

BRANCH I – MEDICAL SURGICAL NURSING

01 – CARDIO VASCULAR AND THORACIC NURSING

Q.P. Code: 302332

Time: Three Hours

Maximum: 75 Marks

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

1. a) Definition, risk factors, Pathophysiology and clinical manifestations of Primary Hypertension.
b) Explain the Complications and Medical Management of Primary Hypertension.
c) Write the Nursing Management of a patient with Primary Hypertension.
2. a) What is Cardio Pulmonary Cerebral Resuscitation (CPCR) and write the indications of Cardio Pulmonary Cerebral Resuscitation?
b) Explain in detail the Basic Life Support (BLS) and Advanced Cardiac Life Support (ACLS).
c) Write the Nursing role during a code.

II. Write notes on: **(7 x 5 = 35)**

1. Mobile coronary care unit.
2. Electrophysiology of heart.
3. Pulse oximetry.
4. Types, Pathophysiology, complications and management of Pneumonia.
5. Clinical manifestations, complications and management of varicose vein.
6. Tracheostomy care.
7. Chest physiotherapy.

[LP 426]

OCTOBER 2019

Sub. Code: 2332

M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)

SECOND YEAR

PAPER II – CLINICAL SPECIALITY – II

BRANCH I – MEDICAL SURGICAL NURSING

01 – CARDIO VASCULAR AND THORACIC NURSING

Q.P. Code: 302332

Time: Three Hours

Maximum: 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Define mechanical ventilation.
b) Write the types, mode and complications of mechanical ventilation.
c) Explain the responsibility of nurse in care of patient with mechanical ventilation.
2. Mr. X a 52 year old man is diagnosed to have 'ST' Segment Elevation Myocardial Infarction (STEMI) in the E.R.
 - a) List the diagnostic tests for acute coronary syndrome.
 - b) Explain the collaborative management and nursing care during the emergent and acute care phases of a patient with myocardial infarction.

II. Write notes on:

(7 x 5 = 35)

1. Heart rate variability.
2. Care of critically ill patients.
3. Types and management of aneurysm.
4. Cardiac transplantation.
5. Embryological development of heart.
6. Name and use of anti-thrombolytic agents in cardiovascular disorders.
7. Types of lung cancers.

[LQ 426]

**SEPTEMBER 2020
(MAY 2020 SESSION)**

Sub. Code: 2332

**M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)**

SECOND YEAR

PAPER II – CLINICAL SPECIALITY – II

BRANCH I – MEDICAL SURGICAL NURSING

01 – CARDIO VASCULAR AND THORACIC NURSING

Q.P. Code: 302332

Time: Three Hours

Maximum: 75 Marks

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

1. a) What is arrhythmia? Explain the conduction system of the heart.
b) Explain in detail the types of arrhythmias and its management.
c) Enumerate the classification of anti-arrhythmic drugs.
2. a) Write a note on triggers, pathophysiology and clinical manifestations of Bronchial asthma.
b) Classification and complications of Bronchial Asthma.
c) Write the medical and nursing management of Bronchial Asthma.

II. Write notes on: **(7 x 5 = 35)**

1. Evidenced based nursing in cardiovascular and thoracic nursing.
2. Design of ICCU.
3. Pleural Effusion.
4. Raynaud's Phenomenon.
5. Atrial septal defect.
6. Anti-coagulants.
7. Invasive and non-invasive diagnostic techniques in cardiovascular and thoracic nursing.

[LS 426]

**DECEMBER 2020
(OCTOBER 2020 SESSION)**

Sub. Code: 2332

**M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)**

SECOND YEAR

PAPER II – CLINICAL SPECIALITY – II

BRANCH I – MEDICAL SURGICAL NURSING

01 – CARDIO VASCULAR AND THORACIC NURSING

Q.P. Code: 302332

Time: Three Hours

Maximum: 75 Marks

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

1. a) Describe the various types of Heart Block with suitable diagrams.
b) Discuss the Pathophysiology and Clinical manifestations of Heart Block.
c) Explain the Role of Nurse in the management of Heart Block.
2. a) Discuss the various factors Influencing Deep Vein Thrombosis.
b) Elaborate on the Pathophysiology, clinical manifestations and Nurses Role in the management of Pulmonary Embolism.

II. Write notes on: **(7 x 5 = 35)**

1. Adult Basic Life Support.
2. Aortic Dissection.
3. Infection Control Practices in Intensive Coronary Care Unit.
4. Cyanotic Heart Diseases with Suitable Diagrams.
5. Cardiac Assessment.
6. Beta – Blocking Agents.
7. Cardiac Tamponade.

[MSCN 0821]

**AUGUST 2021
(MAY 2021 SESSION)**

Sub. Code: 2332

**M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)**

SECOND YEAR

PAPER II – CLINICAL SPECIALITY – II

BRANCH I – MEDICAL SURGICAL NURSING

01 – CARDIO VASCULAR AND THORACIC NURSING

Q.P. Code: 302332

Time: Three Hours

Maximum: 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a. Describe the various types of heart block with suitable diagrams.
b. Discuss the pathophysiology and clinical manifestations of heart block.
c. Explain the role of a nurse in the management of Heart block.
2. a. Discuss the various factors influencing deep vein thrombosis
b. Elaborate on pathophysiology, clinical manifestations and nurse's role in the management of pulmonary embolism.

II. Write notes on:

(7 x 5 = 35)

1. Adult basic life support.
2. Aortic dissection.
3. Infection control practices in intensive coronary care unit.
4. Cyanotic heart diseases with suitable diagrams.
5. Life style modifications for the prevention of cardiac diseases.
6. Hypertension.
7. Cardiac tamponade.

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

[MSCN 1022]

**OCTOBER 2022
(MAY 2022 EXAM SESSION)**

Sub. Code: 2332

**M.Sc. (NURSING) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)**

SECOND YEAR

**PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
01 – CARDIO VASCULAR AND THORACIC NURSING**

Q.P. Code: 302332

Time: Three Hours

Maximum: 75 Marks

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

1. a) Define Bronchial Asthma.
b) Discuss the pathophysiology and clinical manifestations of a patient with Bronchial Asthma.
c) Explain the Medical and Nursing Management of a patient with Bronchial Asthma.
2. a) Classification – cyanotic and acyanotic heart disease.
b) Explain the pathophysiology and clinical manifestations of Patent Ductus Arteriosus.
c) Discuss the various management of a patient with Patent Ductus Arteriosus disease.

II. Write notes on: **(7 x 5 = 35)**

1. Role of nurse in Stress management in ICU.
2. Pulmonary embolism.
3. Cardiac markers.
4. Nursing care of patients
5. Diuretics.
6. Pulmonary assessment.
7. Deep vein thrombosis.

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

[MSCN 0323]

MARCH 2023

Sub. Code: 2332

(OCTOBER 2022 EXAM SESSION)

M.Sc. (NURSING) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)

SECOND YEAR

PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
01 – CARDIO VASCULAR AND THORACIC NURSING

Q.P. Code: 302332

Time: Three Hours

Maximum: 75 Marks

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

1. a) Define Chronic Obstructive Pulmonary Disease (COPD).
b) Discuss the pathophysiology and clinical manifestations of a patient with COPD.
c) Explain the medical and nursing management of a patient with COPD.

2. a) Define Rheumatic Heart Disease (RHD).
b) Write the causes, pathophysiology and clinical manifestations of RHD.
c) Explain the postoperative nursing care of a patient with valve replacement surgery for RHD.

II. Write notes on: **(7 x 5 = 35)**

1. Electrocardiography (ECG).
2. Pleural effusion.
3. Ventricular Septal Defect.
4. Drugs used in cardiac emergencies.
5. Burn out syndrome.
6. Cardiac rehabilitation.
7. Legal and ethical issues in Cardiac nursing.

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

[MSCN 0923]

**SEPTEMBER 2023
(MAY 2023 EXAM SESSION)**

Sub. Code: 2332

**M.Sc. (NURSING) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)**

SECOND YEAR

**PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
01 – CARDIO VASCULAR AND THORACIC NURSING**

Q.P. Code: 302332

Time: Three Hours

Maximum: 75 Marks

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

1.
 - a) Define Pulmonary Embolism.
 - b) Discuss the risk factors, pathophysiology and clinical manifestations of a patient with Pulmonary Embolism.
 - c) Explain the medical and nursing management of a patient with Pulmonary Embolism.
2.
 - a) Define Congestive Cardiac Failure.
 - b) Explain the pathophysiology and differentiate the clinical manifestations between the types of Congestive Cardiac Failure.
 - c) Write the medical and nursing management of a patient with Congestive Cardiac Failure.

II. Write notes on: **(7 x 5 = 35)**

1. Cardiac catheterization.
2. Oxygen delivery systems.
3. Atrial Septal Defect.
4. Inotropic agents.
5. Design of Intensive Cardiothoracic Unit (ICTU).
6. Cardiopulmonary resuscitation.
7. Chest physiotherapy.

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

[MSCN 0424]

APRIL 2024

Sub. Code: 2332

(OCTOBER 2023 EXAM SESSION)

M.Sc. (NURSING) DEGREE EXAMINATION

(Regulations for the candidates admitted from the A.Y. 2011-2012 onwards)

SECOND YEAR

PAPER II – CLINICAL SPECIALITY – II

BRANCH I – MEDICAL SURGICAL NURSING

01 – CARDIO VASCULAR AND THORACIC NURSING

Q.P. Code: 302332

Time : Three Hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Mr. 57 years old is admitted with the diagnosis of congestive heart failure.
 - a) Explain the types and pathophysiology of congestive heart failure.
 - b) Discuss the medical management for Mr. X.
 - c) Prepare nursing care plan for Mr. X.
2.
 - a) Define Pleural effusion.
 - b) Discuss the etiology, pathophysiology and medical management of patient with Pleural effusion.
 - c) Explain the nursing management for a patient with Pleural effusion.

II. Write notes on:

(7 x 5 = 35)

1. Pulmonary embolism.
2. Oxygen delivery system.
3. Tracheostomy care.
4. Complications of Hypertension.
5. Defibrillation.
6. Tension Pneumothorax.
7. CPR – BLS.

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

[MSCN 1125]

**NOVEMBER 2025
(OCTOBER 2025 EXAM SESSION)**

Sub. Code: 2332

**M.Sc. (NURSING) DEGREE EXAMINATION
(Regulations for candidates admitted from the A.Y. 2011-2012 onwards)**

SECOND YEAR

**PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
(i) – CARDIO VASCULAR & THORACIC NURSING**

Q.P. Code: 302332

Time : Three Hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Mr. X is diagnosed to have ST Segment Elevation Myocardial Infarction (STEMI) in the emergency room.
 - a) List the diagnostic test for acute coronary syndrome. (7)
 - b) Explain the immediate management and the use of cardiac drugs for this patient. (8)
 - c) Discuss the collaborative management and nursing care in the acute phase of patient with Myocardial Infarction. (5)
2.
 - a) Explain about Tension Pneumothorax. (4)
 - b) Brief the clinical manifestation of Tension Pneumothorax. (6)
 - c) Detail about Medical and Nursing management of the patient diagnosed with Tension Pneumothorax. (10)

II. Write notes on:

(7 x 5 = 35)

1. Types of Shock and its management.
2. Chest physiotherapy.
3. Arterial blood gas analysis.
4. Aortic dissection.
5. Deep Vein Thrombosis.
6. Pleural effusion.
7. Atrial Septal defect.
