

[LJ 0816]

AUGUST 2016

Sub.Code :2612

**B.Sc. RESPIRATORY THERAPY
SECOND YEAR
PAPER II – CARDIOVASCULAR DISEASES**

Q.P. Code: 802612

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Myocardial Infarction – Definition, Etiology, Risk Factors, Pathogenesis, Diagnosis and Management.
2. Define Arrhythmia. Enumerate on Tachyarrhythmias and their management.
3. Pulmonary Embolism – Pathogenesis, Clinical Features and Management.

II. Write Notes on:

(8 x 5 = 40)

1. Obstructive Shock.
2. Mitral Stenosis – Definition and Severity.
3. Pulmonary Fibrosis – Definition and Diagnostic Criteria.
4. Types of cardiomyopathy.
5. Endocarditis – Diagnosis and Management.
6. Tetralogy of Fallot – Left to right Shunt.
7. Enumerate on Bradyarrhythmias and Management.
8. Pulmonary Hypertension – Signs and Symptoms, Clinical Classification.

III. Short Answers on:

(10 x 3 = 30)

1. Criteria for fibrinolysis.
2. Well's Criteria.
3. Preload.
4. Asystole.
5. Define Cardioversion.
6. Diagnostic Criteria of Myocarditis.
7. Adjunctive Therapy for Pulmonary hypertension.
8. Complete Heart Block.
9. Treatment of Right Ventricular Failure.
10. Unstable Angina.

[LK 0217]

FEBRUARY 2017

Sub.Code :2612

**B.Sc. RESPIRATORY THERAPY
SECOND YEAR
PAPER II – CARDIOVASCULAR DISEASES**

Q.P. Code: 802612

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Myocardial Infarction – Definition, and Risk Factors. Add a note on Management of ST Elevation Myocardial Infarction.
2. Ventricular tachycardia – Diagnosis, Features, and Management.
3. Anticoagulation and Thrombolysis in Pulmonary Embolism.

II. Write Notes on:

(8 x 5 = 40)

1. Vasopressors.
2. Right Ventricular Failure.
3. Medical Management of Pulmonary Edema.
4. Fibrinolysis – Criteria and Contraindications.
5. Mitral Regurgitation – Severity and management.
6. Myocarditis – Pathogenesis and management.
7. Atrial Fibrillation.
8. Atrial Septal defect.

III. Short Answers on:

(10 x 3 = 30)

1. TIMI Score.
2. Unstable Angina.
3. Afterload.
4. Sinus Bradycardia.
5. Medical Management of Pulmonary Hypertension.
6. Defibrillation.
7. Duke's criteria.
8. Left Bundle Branch Block.
9. Dobutamine.
10. Diastolic Heart Failure.

[LL 0817]

AUGUST 2017

Sub.Code :2612

B.Sc. RESPIRATORY THERAPY

SECOND YEAR

PAPER II – CARDIOVASCULAR DISEASES

Q.P. Code: 802612

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Pulmonary edema etiology, pathogenesis, clinical features, diagnosis, ventilatory and non ventilatory management.
2. Classification of arrhythmias, diagnosis and treatment for tachyarrhythmias.
3. Define shock and its types. Explain on cardiogenic shock clinical features, diagnosis and treatment.

II. Write Notes on:

(8 x 5 = 40)

1. NSTEMI.
2. Inotropic.
3. Tetralogy of Fallot.
4. Diagnosis criteria of Endocarditis.
5. Atrial fibrillation – Diagnosis and treatment.
6. Fibrinolysis – criteria and contraindications.
7. Right ventricular failure.
8. Bedside cardiac assessment.

III. Short Answers on:

(10 x 3 = 30)

1. Geneva and WESI score.
2. Pulmonary hypertension and its types.
3. Cardiac enzymes.
4. Dilated cardiomyopathy.
5. TIMI score.
6. Supraventricular tachycardia.
7. Defibrillation.
8. How to interpret an ECG?
9. Unstable angina.
10. Dobutamine.

[LM 0218]

FEBRUARY 2018

Sub. Code: 2612

B.Sc. RESPIRATORY THERAPY

SECOND YEAR

PAPER II – CARDIOVASCULAR DISEASES

Q.P. Code: 802612

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Definition, types, pathogenesis clinical features, diagnosis and management of Pulmonary edema?
2. Write in detail about causes, types, diagnosis and management of heart failure.
3. How does coronary artery disease lead to Myocardial infarction? What are clinical manifestations, diagnosis and management of both?

II. Write Notes on:

(8 x 5 = 40)

1. Write in detail about strategies for diagnosis of pulmonary embolism.
2. What is TOF? Write in detail about the same.
3. Explain about prophylaxis for pulmonary embolism.
4. What are the medical and surgical management of mitral valvular disorders?
5. Write about causes and management of cardiomyopathies.
6. What is atrial fibrillation and write its symptoms?
7. Differences between atrial and ventricular tachycardia.
8. Write about cardiac rehabilitation.

III. Short Answers on:

(10 x 3 = 30)

1. Write the definition and clinical features of pulmonary hypertension.
2. What is mitral stenosis? List its symptoms.
3. ECG findings of ventricular tachycardia.
4. What are the signs and symptoms of arterial septal defect?
5. What are the causes of myocarditis?
6. Management of cardiogenic shock.
7. List the conditions when defibrillator is used.
8. What is the management of Ischemic heart diseases?
9. What is the treatment for endocarditis?
10. Management algorithm for ventricular fibrillation.

[LN 0818]

AUGUST 2018

Sub. Code: 2612

B.Sc. RESPIRATORY THERAPY

SECOND YEAR

PAPER II – CARDIOVASCULAR DISEASES

Q.P. Code: 802612

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. What is pulmonary hypertension? Explain about its pathogenesis, clinical features, diagnosis and management.
2. Explain in detail about congenital heart diseases.
3. What are acute cardiac emergencies? Write in detail about one condition.

II. Write Notes on:

(8 x 5 = 40)

1. How will you differentiate hydrostatic and non-hydrostatic pulmonary edema in the clinical setting?
2. What are the types of heart failure and how will you differentiate it?
3. Write about mitral valvular heart disease.
4. Write a brief note on endocarditis.
5. Write the differences between tachy-arrhythmias and brady-arrhythmias.
6. Write in detail about ventricular septal defect.
7. Risk factors and prevention for coronary artery disease.
8. Write about diagnosis and management of myocardial infarction.

III. Short Answers on:

(10 x 3 = 30)

1. What is cardiogenic shock?
2. What are the symptoms and predisposing factors for pulmonary embolism?
3. Prevention of coronary artery disease.
4. Difference between acyanotic and cyanotic heart diseases.
5. Write about the management of mitral valve regurgitation.
6. What is cardiomyopathy? What are its types?
7. Write about the management of Pulmonary embolism.
8. Causes of cardiac failure.
9. How will you differentiate cardiac and respiratory failure?
10. Precautions to be taken in a patient with pacemaker.

[LO 0219]

FEBRUARY 2019

Sub. Code: 2612

B.Sc. RESPIRATORY THERAPY

SECOND YEAR

PAPER II – CARDIOVASCULAR DISEASES

Q.P. Code: 802612

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Write in detail about pathogenesis, clinical features, diagnosis and management of pulmonary embolism? What are the responsibilities of respiratory therapist in managing such patients?
2. Explain in detail about endocarditis and myocarditis.
3. What are arrhythmias? Explain in detail about ventricular tachy-arrhythmias.

II. Write Notes on:

(8 x 5 = 40)

1. Importance of four limb blood pressure recording.
2. Five signs of shock.
3. What is Patent ductus arteriosus?
4. Write in detail about cyanotic heart diseases.
5. Types and treatment of cardiomyopathy.
6. Write five symptoms of myocardial infarction.
7. Explain in detail about mitral valve stenosis.
8. Write about the life style modifications to prevent coronary heart diseases.

III. Short Answers on:

(10 x 3 = 30)

1. Normal pulse rate define tachycardia and bradycardia.
2. Name three congenital heart diseases.
3. List the risk factors for hypertension.
4. List the causes for tricuspid valve regurgitation.
5. What are the various ABG findings in patients with acute pulmonary embolism?
6. What are the causes of cardiogenic shock?
7. What are the symptoms of right sided heart failure?
8. What is the management of infective endocarditis?
9. What is defibrillator? When is it used?
10. List the anti-failure medications.

[LP 0819]

AUGUST 2019

Sub. Code: 2612

B.Sc. RESPIRATORY THERAPY

SECOND YEAR

PAPER II – CARDIOVASCULAR DISEASES

Q.P. Code: 802612

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Classify congenital heart diseases. Write note on pathophysiology and management Tetralogy of Fallot.
2. Write the Dana point classification for Pulmonary hypertension. Write the drugs used in the management of Pulmonary hypertension.
3. Write the causes, Pathophysiology and management of Cardiogenic pulmonary oedema.

II. Write Notes on:

(8 x 5 = 40)

1. Difference between cardioversion and defibrillation.
2. Management of acute pulmonary thromboembolism.
3. Duke's criteria.
4. Ventricular septal defect.
5. Myocarditis.
6. Pericardial tamponade.
7. Mitral stenosis.
8. Types of heart failure.

III. Short Answers on:

(10 x 3 = 30)

1. Wells score.
2. Aspirin.
3. ECG findings Atrial fibrillation.
4. Cardiac enzymes.
5. TIMI score.
6. Arterial blood gas findings in Pulmonary embolism.
7. Unstable angina.
8. Causes of right to left shunt.
9. Asystole.
10. Complete heart block.

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

[AHS 0321]

MARCH 2021

Sub. Code: 2612

(AUGUST 2020 EXAM SESSION)

B.Sc. RESPIRATORY THERAPY

SECOND YEAR (Regulation 2014-2015)

PAPER II – CARDIOVASCULAR DISEASES

Q.P. Code : 802612

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. What are acute cardiac emergencies? Write in detail about any one condition.
2. Explain in detail about congenital heart diseases.
3. What is primary hypertension? Explain about pathogenesis, clinical features, diagnosis and management of the same.

II. Write Notes on:

(8 x 5 = 40)

1. Write a brief note on endocarditis.
2. Write the differences between tachyarrhythmias and bradyarrhythmias.
3. Write in detail about ventricular septal defect.
4. What are the risk factors and prevent for coronary artery disease?
5. How will you differentiate hydrostatic and non-hydrostatic pulmonary edema in the clinical setting?
6. What are the types of heart failure and how will you differentiate it?
7. Write about mitral valvular heart disease.
8. Write about diagnosis and management of Myocardial infarction.

III. Short Answers on:

(10 x 3 = 30)

1. Write about the management of mitral valve regurgitation.
2. What is cardiomyopathy? Explain.
3. Write about the management of Pulmonary embolism.
4. How will you manage a patient with a pacemaker?
5. What are the causes of cardiac failure?
6. What is cardiogenic shock?
7. What are the symptoms and predisposing factors for pulmonary embolism?
8. How can you prevent heart failure?
9. What is the difference between acyanotic and cyanotic heart diseases?
10. How will you clinically differentiate cardiac and respiratory failure?

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

[AHS 0222]

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

Sub. Code: 2612

**B.Sc. RESPIRATORY THERAPY
SECOND YEAR (Regulation 2014-2015)
PAPER II – CARDIOVASCULAR DISEASES
Q.P. Code : 802612**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on: **(3 x 10 = 30)**

1. Cardiogenic Shock.
2. Pericardial effusion, Pericardial tamponade, diagnosis and management.
3. Bradyarrhythmias.

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

1. Modified wells criteria.
2. Atrial Septal defect.
3. Syncope.
4. Patent ductus arteriosus.
5. Stable Angina.
6. Supraventricular Tachycardia.
7. Cor Pulmonale.
8. Arterial Pulse examination.

III. Short Answers on: **(10 x 3 = 30)**

1. Right ventricular branch block.
2. ECG findings in Pulmonary Embolism.
3. Chest X-Ray signs of Pulmonary Edema.
4. Fourth heart sound.
5. Ivabradine.
6. Auscultation findings in patient with Mitral stenosis.
7. PR interval.
8. ECG findings in Atrial Fibrillation.
9. Auscultation findings in Pulmonary edema.
10. Sinus Bradycardia.

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

[AHS 0922]

SEPTEMBER 2022

Sub. Code: 2612

(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)

**B.Sc. RESPIRATORY THERAPY
SECOND YEAR (Regulation from 2014-2015)
PAPER II – CARDIOVASCULAR DISEASES
Q.P. Code : 802612**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Pulmonary hypertension – Definition, Classification, Etiology, Pathogenesis, Diagnosis and Management.
2. Acute coronary syndrome – Types, clinical manifestation, pathogenesis and management.
3. Classification, Symptoms, Pathogenesis, clinical features and management of cardiomyopathy.

II. Write notes on:

(8 x 5 = 40)

1. ECG diagnosis of Acute myocardial infarction.
2. Definition and classification of Heart failure.
3. Advance Cardiac Life Support.
4. Causes and symptoms of myocarditis.
5. Infective Endocarditis – symptoms and signs.
6. Left to Right shunt – causes.
7. Classification of Bradyarrhythmia.
8. Signs and symptoms of Mitral regurgitation.

III. Short answers on:

(10 x 3 = 30)

1. Clinical features of Mitral stenosis.
2. Prevention of coronary artery disease.
3. Cor Pulmonale-Definition and treatment.
4. Causes of pericardial effusion.
5. Clinical features of Tetralogy of Fallot.
6. Diagnosis of Pulmonary Embolism.
7. Emergency management of Pulmonary Edema.
8. First degree AV block.
9. Definition of cardiogenic shock.
10. Atrial Septal Defect.

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

[AHS 0423]

APRIL 2023

Sub. Code: 2612

**B.Sc. RESPIRATORY THERAPY
SECOND YEAR (Regulations 2014-2015 & 2018-2019 onwards)
PAPER II – CARDIOVASCULAR DISEASES
Q.P. Code: 802612**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. ST Segment Elevation Myocardial Infarction (STEMI) – Definition, Risk Factors, Pathogenesis, Diagnosis and Management.
2. Classify Arrhythmias. Discuss on Tachyarrhythmias and its management.
3. Symptoms, Pathogenesis, Clinical features and Management of Pulmonary Embolism.

II. Write notes on:

(8 x 5 = 40)

1. Treatment of Cardiogenic shock.
2. Definition and Classification of Pulmonary Hypertension.
3. Basic Life Support.
4. Dilated Cardiomyopathy.
5. Infective Endocarditis – Diagnosis and Management.
6. Cardiac defects in Tetralogy of Fallot. Explain Clinical features.
7. Classification of Acute Coronary Syndrome.
8. Signs and symptoms of Mitral Stenosis.

III. Short answers on:

(10 x 3 = 30)

1. Contra indications for Fibrinolysis in Myocardial Infarction.
2. Lifestyle modifications for Coronary Artery disease.
3. Cardiac Tamponade – Definition and Treatment.
4. Left to Right shunts.
5. Uses of Defibrillator.
6. Diagnosis of Myocarditis.
7. Right Heart Failure-Clinical features and management.
8. Complete Heart Block.
9. Types of Shock.
10. Features of Acute Rheumatic Fever.

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

[AHS 0424]

APRIL 2024

Sub. Code: 2612

B.Sc. RESPIRATORY THERAPY
SECOND YEAR (Regulations 2014-2015 & 2018-2019 onwards)
PAPER II – CARDIOVASCULAR DISEASES
Q.P. Code: 802612

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on: **(3 x 10 = 30)**

1. Classify Tachyarrhythmias. Discuss Diagnosis and Management of Ventricular Arrhythmias.
2. Definition, Risk factors, Clinical features, Investigations and Management of Acute Myocardial Infarction.
3. Classification, Symptoms, Pathogenesis, Clinical features and Management of Heart Failure.

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

1. Pulmonary Embolism-Diagnosis and Management.
2. Defibrillation during Cardiac Arrest.
3. Importance of Basic Life Support.
4. Name important Congenital Cyanotic Heart diseases.
5. Infective Endocarditis – Clinical features.
6. Pulmonary Hypertension-Management.
7. Cardiac Tamponade.
8. Causes and Symptoms of Mitral regurgitation.

III. Short answers on: **(10 x 3 = 30)**

1. Diagnosis of Mitral stenosis.
2. Prevention of Coronary Artery Disease.
3. Features of Acute Rheumatic Fever.
4. Symptoms of Pericardial Effusion.
5. Drugs used in Resuscitation.
6. Causes of Myocarditis.
7. Angina Pectoris.
8. Second degree Atrioventricular block.
9. Cardiogenic shock- Definition and Treatment.
10. Atrial Septal Defect.
