

[LD 0212]

AUGUST 2013

Sub.Code :1621

**B.Sc. PHYSICIAN ASSISTANT
THIRD YEAR
PAPER I – CARDIOLOGY AND CARDIAC SURGERY/NEUROLOGY**

Q.P. Code : 801621

Time: Three hours

Maximum : 100 Marks

Answer All questions

I Elaborate on: **(3x10 =30)**

1. Diagnostic tools for heart disease and prevention of heart disease.
2. Define hypertension. How to measure blood pressure and the adverse effects of hypertension.
3. What is seizure and epilepsy? Enumerate the triggering factors, classification, cause and clinical features of epilepsy.

II Write Notes on : **(8x5 =40)**

1. Causes of chest pain and how will you identify ischemic cardiac pain?
2. Myasthenia gravis.
3. Subarachnoid haemorrhage.
4. Conducting system of the heart.
5. Management of cardiac arrest.
6. Write a note on neurotransmitters.
7. Electro encephalogram.
8. Pacemakers.

III Short Answers on: **(10x3 =30)**

1. Cardiac output.
2. Cardiac tamponade.
3. Meningism.
4. Clinical features of raised intracranial pressure.
5. Causes of spinal cord compression and its symptoms.
6. Bladder innervation.
7. Ventricular ectopic beats.
8. Raynaud's disease.
9. Clinical features of aortic regurgitation.
10. Wernicke – Korsakoff syndrome.

[LE 0212]

FEBRUARY 2014

Sub.Code:1621

**B.Sc. PHYSICIAN ASSISTANT
THIRD YEAR
PAPER I – CARDIOLOGY AND CARDIAC SURGERY/NEUROLOGY**

Q.P. Code : 801621

Time: Three hours

Maximum : 100 Marks

Answer all questions

I Elaborate on: (3x10 =30)

1. What is Cardiac Arrest and sudden Cardiac death? State its causes, aetiology and immediate management of cardiac arrest.
2. Pathophysiology of atherosclerosis and its risk factors and prevention.
3. Stroke – Pathophysiology, risk factors, clinical features and investigations.

II Write Notes on : (8x5 =40)

1. Examination of jugular venous pulse and its importance.
2. Neurocardiogenic syncope.
3. Infective endocarditis.
4. Aortic aneurysm.
5. Mitral Stenosis.
6. Dementia
7. Tremors.
8. Clinical assessment of head injury.

III Short Answers on: (10x3 =30)

1. Cardiac biomarkers.
2. How to assess heart murmur.
3. Torsade's de pointes (ventricular tachycardia).
4. Clinical features of acute coronary syndrome.
5. Cerebrospinal fluid.
6. Myelography.
7. Brain death.
8. Embolisation.
9. Lumbar disc prolapse.
10. Bell's palsy

[LF 0212]

AUGUST 2014

Sub. Code :1621

**B.Sc. PHYSICIAN ASSISTANT
THIRD YEAR
PAPER I – CARDIOLOGY AND CARDIAC SURGERY/NEUROLOGY**

Q.P. Code : 801621

Time: Three hours

Maximum : 100 Marks

Answer All Questions

I. Elaborate on: **(3x10 =30)**

1. Systemic Hypertension, How do you diagnose it? What are its adverse effects on other systems?
2. Parkinson's disease. Its clinical features and manage in brief.
3. Headaches and its types. Brief note about each of them.

II. Write Notes on: **(8x5 =40)**

1. Tetralogy of Fallot
2. Importance of Echocardiography
3. Diagram of Neuromuscular Junction
4. Cerebro spinal fluid
5. Raised Intra Cranial Tension, its manifestations
6. Dementia
7. Atrial septal defect
8. Cardiac Troponin

III. Short Answers on: **(10x3 =30)**

1. Atherosclerosis
2. Pulmonary Embolism
3. Tuberculoma
4. EEG
5. Migraine
6. HOLTER ECG
7. Dementia
8. Syncope
9. Burger's disease
10. Name 2 Cyanotic heart disease

[LG 0215]

FEBRUARY 2015

Sub. Code :1621

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR

PAPER I – CARDIOLOGY AND CARDIAC SURGERY/NEUROLOGY

Q.P. Code : 801621

Time: Three Hours

Maximum : 100 Marks

Answer All Questions

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

1. Rheumatic heart disease, clinical manifestation and its management.
2. Tetralogy of fallot, its clinical manifestation and its management.
3. Headache, types of Headache.

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

1. Meningitis and its manifestations.
2. Brain death, its clinical importance.
3. Vasovagal syncope.
4. Multiple Sclerosis.
5. Patent Ductus Arteriosis.
6. ASD.
7. Clinical features of Cerebellar disease.
8. Parkinson's disease.

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

1. Echo Cardiogram.
2. Tuberculoma.
3. Cardiac Catheterization.
4. Pulmonary Embolism.
5. Vertigo.
6. Aphasia.
7. Cerebro spinal fluid.
8. Cardiomyopathy.
9. Burger's disease.
10. JVP.

[LH 0815]

AUGUST 2015

Sub. Code: 1621

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR

PAPER I – CARDIOLOGY AND CARDIAC SURGERY/NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. What is epilepsy? Enumerate the triggering factors, classification, cause and clinical features of epilepsy.
2. What is Cardiac Arrest and sudden Cardiac death? State its causes, aetiology and immediate management of cardiac arrest.
3. Tetralogy of fallot, its clinical manifestation and its management.

II. Write notes on:

(8 x 5 = 40)

1. Rheumatic heart disease.
2. Multiple Sclerosis.
3. Clinical features of Cerebellar disease.
4. Importance of Echocardiography.
5. Clinical assessment of head injury.
6. Subarachnoid haemorrhage.
7. Causes of chest pain and how will you identify ischemic cardiac pain?
8. Cardiac tamponade.

III. Short answers on:

(10 x 3 = 30)

1. CABG.
2. Causes of spinal cord compression and its symptoms.
3. Myasthenia gravis.
4. Aphasia.
5. Torsade's de pointes (ventricular tachycardia).
6. Atherosclerosis.
7. Raised Intra Cranial Tension, its manifestations.
8. Pulmonary Embolism.
9. Tremors.
10. Vertigo.

[LI 0216]

FEBRUARY 2016

Sub. Code: 1621

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR

PAPER I – CARDIOLOGY AND CARDIAC SURGERY/NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Diagnostic tools for heart disease and prevention of heart disease.
2. Stroke – Pathophysiology, risk factors, clinical features and investigations.
3. Headaches and its types. Brief note about each of them.

II. Write notes on:

(8 x 5 = 40)

1. Neuromuscular junction.
2. Meningitis.
3. Brain death.
4. Pulmonary thromboembolism.
5. Congenital cyanotic heart disease.
6. Coronary perfusion.
7. Motor neuron disease.
8. Importance of Echocardiography.

III. Short answers on:

(10 x 3 = 30)

1. Lumbar disc prolapse.
2. Cardiac Catheterization.
3. Burger's disease.
4. Vasovagal syncope.
5. Parkinson's disease.
6. Mitral Stenosis.
7. Arterial blood gas.
8. Pacemakers.
9. Meningism.
10. Bladder innervation.

[LJ 0816]

AUGUST 2016

Sub. Code: 1621

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR

PAPER I – CARDIOLOGY AND CARDIAC SURGERY/NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Etiology of Coronary Artery Disease. Discuss the Clinical features, Diagnosis and Management of Acute Myocardial Infarction.
2. Discuss the structural Anatomy, symptoms, diagnosis and Treatment of Tetralogy of Fallot.
3. Causes of Heart Failure, signs and symptoms and Medical Treatment of heart failure.

II. Write notes on:

(8 x 5 = 40)

1. Anatomy of long saphenous vein.
2. Jugular Venous Pressure (JVP).
3. Structure and function of Neuromuscular Junction.
4. Trigeminal Neuralgia.
5. Atrial Fibrillation.
6. Activated Clotting Time (ACT).
7. Tread mill test.
8. Parkinsons Disease.

III. Short answers on:

(10 x 3 = 30)

1. Spinal cord injury.
2. Acute limb Ischemia.
3. Patent Ductus Arteriosus.
4. Cardiac myxomas.
5. Constrictive Pericarditis.
6. Protamine Reaction.
7. Extradural Hemorrhage.
8. Modified Ultrafiltration.
9. Symptoms of Right heart failure.
10. Acute Pulmonary Embolism.

[LK 0217]

FEBRUARY 2017

Sub. Code: 1621

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR

PAPER I – CARDIOLOGY AND CARDIAC SURGERY/NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Discuss the structural anatomy, presentation, diagnosis and treatment of Transposition of Great Arteries.
2. Discuss the Etiology, pathogenesis, clinical features and treatment of Rheumatic heart disease.
3. Discuss the causes, Pathophysiology, clinical features and Treatment of Increased Intracranial Pressure.

II. Write notes on:

(8 x 5 = 40)

1. Complications after CABG surgery (Coronary Artery Bypass Surgery).
2. Dilated Cardiomyopathy.
3. Cyanotic Spell.
4. Cardiac Cycle.
5. Transient Ischemic Attack (TIA).
6. Conduction System of heart.
7. Cardiac Tamponade.
8. Burger's disease (Thrombo Angitis Obliterans).

III. Short answers on:

(10 x 3 = 30)

1. Rehabilitation after stroke.
2. Status epilepticus.
3. Blalock- Taussig shunt (BT shunt).
4. Anticoagulation during Cardiopulmonary Bypass.
5. Adrenaline.
6. Classification of congenital heart diseases.
7. Pulmonary Artery Banding.
8. Anatomy of Aortic Valve.
9. Diagnosis of Coronary Artery Disease.
10. Complete Heart Block.

[LL 0817]

AUGUST 2017

Sub. Code: 1621

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR

PAPER I – CARDIOLOGY AND CARDIAC SURGERY / NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Maximum: 100 Marks

Answer all questions

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

1. Classification and complications of hypertension.
2. Signs, symptoms, diagnosis and management of rheumatic mitral stenosis.
3. Clinical features, investigations and management of motor neuron disease.

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

1. Patent ductus arteriosus.
2. Atrial septal defect – types and management.
3. Jugular venous pressure.
4. Surgical management of coronary artery disease.
5. Intra cranial tension.
6. Classification of anti hypertension drugs.
7. Left heart failure.
8. Bell's palsy.

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

1. Deep vein thrombosis.
2. Migraine.
3. Angina pectoris.
4. Types of cyanosis.
5. Vaso vagal syncope.
6. Pulsus paradoxus.
7. Antiplatelets.
8. Clinical features of shock.
9. Mention common neurotransmitters.
10. Vertigo.

[LM 0218]

FEBRUARY 2018

Sub. Code: 1621

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR

PAPER I – CARDIOLOGY AND CARDIAC SURGERY / NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Maximum: 100 Marks

Answer all questions

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

1. Describe the cardiac cycle.
2. Clinical presentation, diagnosis and management of myocardial infarction.
3. Definition, causes, diagnosis and management of epilepsy.

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

1. Lumbar puncture.
2. Hydrocephalus.
3. Subarachnoid hemorrhage.
4. Tuberculoma.
5. Treadmill test.
6. Aphasia.
7. Transient ischaemic attack.
8. Oral anti hypertension drugs.

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

1. Pulmonary oedema.
2. Coronary artery anatomy.
3. Draw and mark a normal ECG.
4. Classify congenital heart disease.
5. Atrial fibrillation management.
6. Sciatica.
7. Types of pulse.
8. Cardiac pacemakers.
9. Cardiac catheterization.
10. Causes of stroke.

[LN 0818]

AUGUST 2018

Sub. Code: 1621

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR

PAPER I – CARDIOLOGY AND CARDIAC SURGERY / NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Maximum: 100 Marks

Answer all questions

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

1. Discuss the pathophysiology and management of Raised Intracranial Pressure.
2. Discuss the clinical presentation and management of Acute Myocardial Infarction.
3. Discuss the risk factors, clinical features and management of Acute Ischemic Stroke.

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

1. Brain abscess.
2. Electroencephalogram (EEG).
3. Hypertensive Emergencies.
4. Right heart failure.
5. Acute Rheumatic fever.
6. Trans-esophageal Echocardiogram.
7. Coronary Artery Bypass Grafting.
8. Syncope.

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

1. Thromboangiitis Obliterans.
2. Arterial Blood Gas.
3. Cardiac pacemakers.
4. Low back pain.
5. Motor aphasia.
6. Atrial septal defect.
7. Migraine.
8. Heart sounds.
9. Extradural haemorrhage.
10. Atropine.

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR

PAPER I – CARDIOLOGY AND CARDIAC SURGERY / NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Maximum: 100 Marks

Answer all questions

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

1. Discuss the etiologies, pathophysiology and management of Status Epilepticus.
2. Discuss the structural anatomy, clinical features and management of Tetralogy of Fallot.
3. Discuss Sudden Cardiac Death. State the causes, etiology and management of Cardiac Arrest.

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

1. Atrial Fibrillation.
2. Cardiac tamponade.
3. Multiple Sclerosis.
4. Guillain Barre Syndrome.
5. Patent Ductus Arteriosus.
6. Cardiac cycle.
7. Holter test.
8. Transient ischemic attack.

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

1. Neurotoxic envenomation.
2. Prolonged QT.
3. Wernicke's aphasia.
4. Inferior wall myocardial infarction.
5. Nerve conduction studies.
6. Subarachnoid haemorrhage.
7. Diffuse axonal injury.
8. Vertigo.
9. Mitral valve.
10. Low molecular weight heparin.

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR

PAPER I – CARDIOLOGY AND CARDIAC SURGERY / NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. What is encephalitis? Enumerate the causes, classification, clinical features and management of encephalitis.
2. Pathophysiology of atherosclerosis and its risk factors and prevention.
3. Systemic hypertension, how do you diagnose it? What are its adverse effects on other system?

II. Write notes on:

(8 x 5 = 40)

1. TOF.
2. Importance of TMT.
3. Delirium.
4. Cardiac markers.
5. Synapsis.
6. Meningitis.
7. Activated clotting Time.
8. Cyanotic spell.

III. Short answers on:

(10 x 3 = 30)

1. Status epilepticus.
2. Blalock – Taussing shunt (BT Shunt).
3. CABG.
4. Facial pain.
5. Faintness.
6. TGA (Transposition of great arteries).
7. Murmur.
8. Vertigo.
9. Aortic root.
10. Heart block.

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR

PAPER I – CARDIOLOGY AND CARDIAC SURGERY / NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Maximum: 100 Marks

Answer all questions

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

1. Discuss the clinical features and management of Parkinson's disease.
2. Discuss the clinical features, etiology and management of Acute Pulmonary Edema.
3. Discuss the etiology, pathogenesis, clinical features and management of Rheumatic Heart disease.

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

1. Pneumothorax.
2. Heart transplantation.
3. Hydrocephalus.
4. Constrictive pericarditis.
5. Intracranial Haemorrhage.
6. Tuberculoma.
7. Posterior circulation stroke.
8. Spinocerebellar ataxia.

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

1. Juvenile Myoclonic Epilepsy.
2. Diagnosis of Hypertension.
3. Protamine reaction.
4. Left Atrial Myxoma.
5. Spinal cord injury.
6. Diagnosis of Brain Death.
7. Beta blockers.
8. Cardiac cycle.
9. Ventricular septal defect.
10. Cardiac troponins.

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

[LR 1220]

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

Sub. Code: 1621

**BACHELOR IN PHYSICIAN ASSISTANT
THIRD YEAR – (Regulations from 2010-2011 & 2014-2015)
PAPER I – CARDIOLOGY AND CARDIAC SURGERY / NEUROLOGY
Q.P. Code: 801621**

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Discuss the clinical features and management of Parkinson's disease.
2. Discuss the clinical features, etiology and management of Acute Pulmonary Edema.
3. Discuss the etiology, pathogenesis, clinical features and management of Rheumatic Heart disease.

II. Write notes on:

(8 x 5 = 40)

1. Pneumothorax.
2. Heart Transplantation.
3. Hydrocephalus.
4. Constrictive Pericarditis.
5. Intracranial Haemorrhage.
6. Tuberculoma.
7. Posterior Circulation Stroke.
8. Spinocerebellar Ataxia.

III. Short answers on:

(10 x 3 = 30)

1. Juvenile Myoclonic Epilepsy.
2. Diagnosis of Hypertension.
3. Protamine Reaction.
4. Left Atrial Myxoma.
5. Spinal Cord Injury.
6. Diagnosis of Brain Death.
7. Beta Blockers.
8. Cardiac Cycle.
9. Ventricular Septal Defect.
10. Cardiac Troponins.

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

[AHS 0122]

JANUARY 2022

Sub. Code: 1621

(FEBRUARY 2021 & AUGUST 2021 EXAM SESSION)

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR – (Regulations from 2010-2011 & 2014-2015)

PAPER I – CARDIOLOGY AND CARDIAC SURGERY / NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Discuss the Etiology, pathogenesis, clinical features and treatment of Rheumatic heart disease. Diagnostic tools for heart disease and prevention of heart disease.
2. Causes of heart Failure, signs and symptoms and Medical Treatment of heart failure.
3. Stroke – Pathophysiology, risk factors, clinical features and investigations.

II. Write notes on:

(8 x 5 = 40)

1. Myasthenia gravis.
2. Subarachnoid haemorrhage.
3. Pacemaker.
4. Neurogenic Syncope.
5. Tetralogy of Fallot.
6. Raised Intra Cranial Tension, its manifestations.
7. Patent Ductus Arteriosus.
8. Coronary perfusion.

III. Short answers on:

(10 x 3 = 30)

1. Low back pain.
2. Headache.
3. Wernicke's aphasia.
4. Ventricular ectopic beats.
5. Brain death.
6. Vertigo.
7. Cardiomyopathy.
8. Cardiac Catheterization.
9. Blalock – Taussig shunt (BUT shunt).
10. Status epilepticus.

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

[AHS 0922]

SEPTEMBER 2022

Sub. Code: 1621

(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR – (Regulations from 2010-2011 & 2014-2015)

PAPER I – CARDIOLOGY AND CARDIAC SURGERY / NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Parkinson's disease-Discuss the clinical features and management in brief.
2. Pathophysiology of atherosclerosis and its risk factors and prevention.
3. Define hypertension. How to measure blood pressure and the adverse effects of hypertension?

II. Write notes on:

(8 x 5 = 40)

1. Causes of Chest pain.
2. Examination of Jugular Venous Pulse and its importance.
3. Tremors.
4. Clinical assessment of Head injury.
5. Cardiac Troponin and clinical implications.
6. Clinical features of Cerebellar disease.
7. Multiple Sclerosis.
8. Diagnosis of Pulmonary Thromboembolism.

III. Short answers on:

(10 x 3 = 30)

1. Arterial blood gas analysis.
2. Pulmonary Edema-Management.
3. Cardiac causes of Stroke.
4. Torsades de Pointes.
5. Holter ECG - Indications.
6. Syncope -Definition and Types.
7. Aphasia.
8. Spinal cord injury.
9. Neurotransmitters.
10. Types of Cyanosis.

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

[AHS 0423]

APRIL 2023

Sub. Code: 1621

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR – (Regulations 2010-2011, 2014-2015 & 2019-2020 onwards)

PAPER I – CARDIOLOGY AND CARDIAC SURGERY / NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. What is Cardiac Arrest and sudden cardiac death? Describe Cardio Pulmonary Resuscitation in details.
2. Describe Cardiac Cycle and write about Heart Sounds.
3. Discuss clinical features, investigations and management of Peripheral Neuropathies.

II. Write notes on:

(8 x 5 = 40)

1. Pott's disease.
2. Intra cranial pressure.
3. VSD.
4. Vertigo.
5. Neuromuscular junction.
6. Aneurysm.
7. Left heart failure.
8. Continuous murmur.

III. Short answers on:

(10 x 3 = 30)

1. DVT.
2. Atherosclerosis.
3. Migraine.
4. Extrapyrarnidal disorders.
5. Aphasia.
6. EEG.
7. Anti anginal drugs.
8. Neuro transmitters.
9. Treadmill test.
10. Sciatica.

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 1621

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR – (Regulations 2010-2011, 2014-2015 & 2019-2020 onwards)

PAPER I – CARDIOLOGY AND CARDIAC SURGERY / NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Describe Coronary Anatomy. What is the pathophysiology of Myocardial infarction? Elaborate on ECG changes and its usefulness in the localization of the coronary artery involved.
2. What are Cardiac Left to Right Shunt Lesions? Describe the clinical features and the Echocardiographic changes.
3. How do you define Stroke? Discuss the various types of Stroke. Describe the role of Thrombolytic therapy in Stroke.

II. Write notes on:

(8 x 5 = 40)

1. What is meant by complete heart block? What are the causes?
2. How do you define brain death?
3. Atrial fibrillation.
4. Drugs used in heart failure.
5. Treatment of Tetralogy of Fallot.
6. Tuberculous meningitis.
7. Myasthenia gravis.
8. Parkinson's disease - Clinical features.

III. Short answers on:

(10 x 3 = 30)

1. Migraine.
2. Indications of Holter Monitoring.
3. Pericardial effusion.
4. Auscultatory findings in Mitral Stenosis.
5. Wolf Parkinson White syndrome.
6. Neuromuscular Junction - Illustration.
7. Optic nerve.
8. Polycythemia.
9. Causes of epilepsy.
10. Ventricular fibrillation - Definition and Management.

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

[AHS 0424]

APRIL 2024

Sub. Code: 1621

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR – (Regulations 2010-2011, 2014-2015 & 2019-2020 onwards)

PAPER I – CARDIOLOGY AND CARDIAC SURGERY / NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Definition, causes, diagnosis and management of Epilepsy.
2. Diagnostic tools for Heart Disease and prevention of Heart Disease.
3. Discuss in detail about types of Headache.

II. Write notes on:

(8 x 5 = 40)

1. Conduction system of Heart.
2. Aortic Aneurysm.
3. Dementia.
4. CSF (Cerebrospinal Fluid)
5. Brain death, its clinical importance.
6. Cardiac Tamponade.
7. Neuromuscular junction.
8. Atrial fibrillation.

III. Short answers on:

(10 x 3 = 30)

1. Atropine.
2. Coronary Arteries.
3. Bladder innervations.
4. Bell's palsy.
5. Tuberculoma - Diagnosis and Treatment.
6. Management of cardiogenic shock.
7. Aphasia.
8. CABG -Indications.
9. Protamine Reaction.
10. Rehabilitation after Stroke.

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

[AHS 0125]

JANUARY 2025

Sub. Code: 1621

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR – (Regulations 2010-2011, 2014-2015 & 2019-2020 onwards)

PAPER I – CARDIOLOGY AND CARDIAC SURGERY / NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Define Arrhythmias. Write the classification and explain in detail about Ventricular Arrhythmias.
2. Define Seizure. Write the types, causes, diagnosis and management of Seizure.
3. Define Myocardial infarction. Mention the causes, pathophysiology and management of Myocardial infarction.

II. Write notes on:

(8 x 5 = 40)

1. Echocardiogram.
2. Tuberculous meningitis.
3. Neuromuscular junction.
4. Tricuspid atresia.
5. Hypertrophic cardiomyopathy.
6. Surface anatomy of Heart.
7. Myasthenia gravis.
8. Brain abscess.

III. Short answers on:

(10 x 3 = 30)

1. Constrictive pericarditis.
2. EEG.
3. Trigeminal neuralgia.
4. Raised Intracranial Pressure.
5. PDA ligation.
6. Coronary artery anatomy.
7. Cerebrospinal fluid.
8. Cardiac markers.
9. Migraine.
10. Heart sounds.

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

[AHS 0425]

APRIL 2025

Sub. Code: 1621

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR – (Regulations 2010-2011, 2014-2015 & 2019-2020 onwards)

PAPER I – CARDIOLOGY AND CARDIAC SURGERY / NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Define Hypertension and write the Pathophysiology, Clinical manifestations, Complications and Management of Hypertension.
2. Discuss in detail about the etiology, clinical manifestations, investigations and management of Multiple Sclerosis.
3. Enumerate the classification, clinical manifestations and management of Tetralogy of Fallot.

II. Write notes on:

(8 x 5 = 40)

1. Polyneuropathy.
2. Echocardiogram.
3. Hydrocephalus.
4. Management of Coronary artery disease.
5. Cardiomyopathy.
6. Pre and Post operative care of Cardiac Catheterization.
7. Differentiate between Upper and Lower Motor Neuron Lesions.
8. Brain abscess.

III. Short answers on:

(10 x 3 = 30)

1. Constrictive pericarditis.
2. Extradural haemorrhage.
3. Trigeminal neuralgia.
4. Mention any three degenerative diseases.
5. Hypoxic spell.
6. Cardiac muscle action potential.
7. Circulation of CSF.
8. Patent Ductus Arteriosus closure.
9. Status epilepticus.
10. Heart sounds.

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

[AHS 1125]

NOVEMBER 2025

Sub. Code: 1621

B.Sc. PHYSICIAN ASSISTANT

THIRD YEAR – (Regulations 2010-2011, 2014-2015 & 2019-2020 onwards)

PAPER I – CARDIOLOGY AND CARDIAC SURGERY / NEUROLOGY

Q.P. Code: 801621

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Motor neuron disease. Write its causes, clinical features, investigations and management.
2. Coronary artery disease. Write its risk factors, stages of development of atherosclerosis and its management.
3. Acute Ischemic stroke. Write its risk factors, pathophysiology, clinical features and management

II. Write notes on:

(8 x 5 = 40)

1. Brain death.
2. Electrocardiogram.
3. Neurotransmitters.
4. Atrial Septal Defect.
5. Aneurysm.
6. Cardiac muscle and its action potential.
7. Compensatory mechanism of heart failure.
8. Structure and function of Neuromuscular Junction.

III. Short answers on:

(10 x 3 = 30)

1. Types of Aphasia.
2. Cerebral palsy.
3. Raised Intracranial Pressure.
4. Ebstein anomaly.
5. Angina pectoris.
6. Meningitis.
7. Cardiac catheterization.
8. Carpal tunnel syndrome.
9. Tremor.
10. Cardiac output.
