

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

[AHS 0423]

APRIL 2023

Sub. Code: 1541

**B.Sc. CARDIAC TECHNOLOGY
FIRST YEAR (Regulation 2021-2022 onwards)
PAPER II – PATHOLOGY, MICROBIOLOGY AND PHARMACOLOGY
RELATED TO CARDIAC TECHNOLOGY
Q.P. Code: 801541**

Time: Three hours

Maximum: 100 Marks

Answer all questions

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

1. Classify drugs used in Heart failure. Add a note on Digoxin.
2. Discuss in detail about etiopathogenesis, morphology, diagnostic criteria and clinical features of Infective Endocarditis.
3. Define Immunity and explain about its classification.

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

1. Vaccination and its types.
2. Difference between Prokaryotic and Eukaryotic cell.
3. Structure and functions of Cell Wall.
4. Wound Healing.
5. Drugs used in Hypertension.
6. Aneurysms.
7. Major causes of Myocarditis.
8. Antiplatelet drugs.

III. Write Short notes on: **(10 X 3 = 30)**

1. Amiodarone.
2. Albert stain.
3. ELISA.
4. Anaphylaxis.
5. Vasculitis.
6. Types of Cardiomyopathy.
7. Ambulatory ECG monitoring.
8. Pseudo aneurysm.
9. Name the Anti-anginal drugs.
10. Lab investigation of Rheumatic fever.

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 1541

**B.Sc. CARDIAC TECHNOLOGY
FIRST YEAR (Regulation 2021-2022 onwards)
PAPER II – PATHOLOGY, MICROBIOLOGY AND PHARMACOLOGY
RELATED TO CARDIAC TECHNOLOGY**

Q.P. Code: 801541

Time: Three hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 X 10 = 30)

1. Write a detail account on etiopathogenesis, morphology, complications and clinical implications of Atherosclerosis.
2. Structure, etiopathogenesis, diagnosis and prevention of HIV.
3. Classify Anti Hypertensive Drugs. Discuss the mechanism of action and therapeutic uses of ACE inhibitors.

II. Write Notes on:

(8 X 5 = 40)

1. Types, Pathogenesis, Symptoms and Treatment of Shock.
2. Regeneration and Repair of Wound healing.
3. Types of Vaccines.
4. Humoral immunity.
5. Disinfection and Disinfectants.
6. Biomedical Waste Management.
7. Gangrene and its types.
8. Class III Anti Arrhythmic drugs.

III. Write Short notes on

(10 X 3 = 30)

1. Warfarin.
2. Calcium Channel Blockers.
3. Morphology of Thrombus.
4. Cardiomyopathy.
5. Define Vascular Disease.
6. Endocarditis and its types.
7. What are Biofilms? Mention its clinical importance.
8. Anaphylaxis.
9. Name three Device Associated Infection.
10. Name three diseases transmitted through Blood and Blood products.

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

[AHS 0424]

APRIL 2024

Sub. Code: 1541

B.Sc. CARDIAC TECHNOLOGY
FIRST YEAR (Regulation 2021-2022 onwards)
PAPER II – PATHOLOGY, MICROBIOLOGY AND PHARMACOLOGY
RELATED TO CARDIAC TECHNOLOGY

Q.P. Code: 801541

Time: Three Hours

Answer All questions

Maximum: 100 Marks

I. Elaborate on:

(3 X 10 = 30)

1. Define Valvular disease and deformities. Describe the etiopathogenesis and its types.
2. Write in detail about Sterilization.
3. Classify Antihypertensive drugs. Add a note on adverse effects and uses of β -blockers.

II. Write Notes on:

(8 X 5 = 40)

1. Flagella.
2. Clinical features and diagnosis of Patent Ductus Arteriosus.
3. Lab diagnosis of Infective Endocarditis.
4. Lipid lowering drugs.
5. Pericarditis.
6. Antianginal drugs.
7. Causes and features of Chronic Inflammation.
8. Lab diagnosis of HIV infection.

III. Write Short notes on:

(10 X 3 = 30)

1. Prevention of Deep Vein Thrombosis.
2. Write any three different Culture Medias.
3. Types of Aneurysms.
4. Nucleus.
5. Types of Fimbriae.
6. Protamine.
7. Treatment of Ventricular Tachycardia.
8. Vegetative endocarditis.
9. Name any three materials that are discarded in yellow bins.
10. Diuretics.

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

[AHS 1125]

NOVEMBER 2025

Sub. Code: 1541

B.Sc. CARDIAC TECHNOLOGY
FIRST YEAR (Regulation 2021-2022 onwards)
PAPER II – PATHOLOGY, MICROBIOLOGY AND PHARMACOLOGY
RELATED TO CARDIAC TECHNOLOGY
Q.P. Code: 801541

Time: Three Hours

Answer All questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Enumerate the drugs used in hyperlipidemia. Describe in detail about statins.
2. Write a detail account on Rheumatic fever.
3. Draw the Structure and explain the pathogenesis, lab diagnosis and prevention of HIV.

II. Write Notes on:

(8 x 5 = 40)

1. Proton pump inhibitors.
2. Diuretics in hypertension.
3. Class II Antiarrhythmic drugs.
4. Pericarditis.
5. Morphology and pathogenesis of embolism.
6. Etiopathogenesis of ischemic heart disease.
7. Universal immunization.
8. Etiology, complications and control of Device associated infections.

III. Write Short notes on

(10 x 3 = 30)

1. Any three Anticoagulants.
2. B-blockers.
3. Antihistamines.
4. Angiotensin receptor blockers.
5. Acid fast staining.
6. Hepatitis C virus.
7. Types of nosocomial infections.
8. Gram staining.
9. Types of Angina.
10. Define cellular adaptation and its types.
