

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

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PAPER II – PATHOLOGY, MICROBIOLOGY AND PHARMACOLOGY
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Time: Three hours

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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.
