



SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Second Year (Semester-III)

September 2023 Examination

B.Sc. Cardiac care Technology (CCT)

Time : 3 Hrs.

Paper – II

[Max. Marks : 100]

Introduction to Cardiac care Technology

Q.P Code : J3760

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Explain the absolute and relative contra indications of TMT and write a note on Bruce protocol in detail
2. Explain the fate of heart tube and write a note on formation of IAS with neat labelled diagram

Short essay (Any ten)

10 X 5 = 50 Marks

3. Describe ECG manifestation in RBBB and write its clinical significance
4. Explain the steps involved in the interpretation of ECG in detail
5. What are the cause and ECG criteria of LAE?
6. Write a note on 1st and 3rd degree AV block
7. List the non-coronary indications of TMT
8. When do you terminate TMT?
9. What are the steps involved in pretest preparation of patients in TMT?
10. Development of IVS in detail with neat labelled diagram
11. Describe coronary artery anatomy with neat labelled diagram
12. Define cardiac cycle and name the phases of cardiac cycle
13. Write the components of electric system of the heart with neat labelled diagram
14. Explain the structures of LA and LV in detail

Short Answers (Any ten)

10 X 3 = 30 Marks

15. Describe IVCD and bazett's formula
16. ECG criteria of LAFB
17. ECG criteria of complete LBBB
18. What are the causes and ECG criteria of RAE?
19. ECG criteria of RVH
20. Write a note on function of placenta
21. Explain the anatomical structures of LV in detail
22. Explain Mason liker ECG system in TMT
23. Write a note on recovery period in TMT
24. Write normal values of the following , a. P wave duration, b. QRS duration, c. PR interval, d. QT interval, e. P wave amplitude
25. Define Metabolic Equivalent and its significance
26. Write a note on Pericardium



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Time : 2.30 Hrs.

[Max. Marks : 80]

PAPER-IV

Medicine Relevant to Cardiac care Technology

Q.P Code : J3780

Your answers should be specific to the questions asked.

Long Essay

2X10=20 Marks

1. Explain the classification, pathophysiology, clinical presentation, diagnosis and treatment of HCM
2. Explain risk factor, pathophysiology, and clinical manifestation of peripheral vascular disease in detail

Short Essay (Answer any Six)

6X5=30 Marks

3. Management of patients with RHD
4. Pathophysiology of heart failure
5. Describe ASD in detail
6. Describe TOF in detail
7. Describe the pathophysiology and clinical presentation of RCM
8. Diagnosis of HF in detail
9. Explain types of TAPVC in detail
10. Explain classification of anemia in detail

Short Answers (Answer any ten)

10X3=30 Marks

11. Write a note on arterial insufficiency in PVD
12. Complications and differential diagnosis of pulmonary edema
13. Write a note on target organ damage in HTN
14. Classification of ASD and VSD
15. Write a note on RBC
16. Hemophilia
17. Pathophysiology of COPD
18. Classification of pulmonary edema
19. Classification of HTN
20. Cardiac amyloidosis
21. Angina pectoris
22. write a note on management of thoracic aortic aneurysm