

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH (A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Third Year (Semester- VI) September 2023 Examination

B.Sc. Cardiac Care Technology (CCT)

Time: 3.00 Hrs. [Max.Marks: 100]

Cardiac Care Technology-Clinical Q.P Code: J6791

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary

Long Essay 2 X 10= 20 Marks

1. Discuss in detail about pathophysiology, clinical features, diagnosis and treatment of double outlet right ventricle

2. Define CCTGA. Discuss clinical features, Diagnosis and treatment of CCTGA.

Short Essay (any ten)

10 X 5= 50 Marks

- 3. Write a note on Shone's complex
- 4. Definition, pathophysiology and diagnosis of CTGA
- 5. Definition and echocardiographic features of Univentricular heart
- 6. Definition, classification and Clinical features of tricuspid atresia
- 7. Definition and classification of truncus arteriosus
- 8. Discuss echocardiographic features of TOF in detail
- 9. Diagnosis and management of truncus arteriosus
- 10. Management of TOF in detail
- 11. Define coarctation of aorta. Write in detail about echo features of COA
- 12. Discuss clinical features, diagnosis and management of pulmonary atresia with intact ventricular septum
- 13. Management of coarctation of Aorta
- 14. Diagnosis and management of tricuspid atresia

Short Answers (any ten)

10 X 3= 30 Marks

- 15. Pathophysiology of CTGA
- 16. Cyanosis and clubbing
- 17. Management of pulmonary atresia
- 18. Jatene procedure
- 19. Hypoplastic left heart syndrome
- 20. Interrupted aortic arch
- 21. BT shunt
- 22. Senning procedure
- 23. Taussig-Bing anomaly
- 24. Rastelli procedure
- 25. Assessment of pulmonary stenosis severity by echocardiography
- 26. Components of TOF with diagrams

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B.Sc. Allied Health Sciences Third Year (Semester- VI)

September 2023 Examination

B.Sc. Cardiac Care Technology (CCT)

Time: 3.00 Hrs. [Max.Marks: 100]

Cardiac Care Technology-Applied Q.P Code: J6792

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary

Long Essay 2 X 10= 20 Marks

1. Cardiac arrest- Definition, causes and its management

2. Define aortic dissection. Write in detail about pathophysiology, clinical features, Diagnosis and treatment of aortic dissection

Short Essay (any ten)

10 X 5= 50 Marks

- 3. Diagnosis and management of aortic aneurysm
- 4. Left ventricular apical thrombus
- 5. How will you recognize ventricular aneurysm
- 6. Write in detail about Defibrillator
- 7. Complications of Myocardial Infarction
- 8. Echocardiographic features of aortic aneurysm
- 9. How will you assess the severity of mitral regurgitation
- 10. ECG in STEMI
- 11. Write in detail about LV aneurysm
- 12. Diagnosis and management of STEMI
- 13. Pathophysiology and clinical features of aortic aneurysm
- 14. Write in detail about Non- ST Elevation Myocardial Infarction

Short Answers (any ten)

10 X 3= 30 Marks

- 15. Ventricular tachycardia
- 16. Unstable angina
- 17. Management of pericardial effusion
- 18. Cardiopulmonary Resuscitation
- 19. What is Automated External Defibrillator (AED)
- 20. Shockable and non-shockable rhythms
- 21. ECG features of atrial fibrillation
- 22. Write a note on cardioversion
- 23. Difference between True aneurysm and pseudo aneurysm
- 24. Ventricular fibrillation
- 25. Role of transesophageal echocardiography in case of planned cardioversion
- 26. Echo in pericardial effusion

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B.Sc. Allied Health Sciences Third Year (Semester-VI)

September 2023 Examination

B.Sc. Cardiac Care Technology (CCT)

Time: 3.00 Hrs. [Max.Marks: 100]

Cardiac Care Technology-Advanced Q.P Code: J6793

Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary.

Long Essay 2 X 10= 20 Marks

- 1. Discuss in detail about the indications, procedure and complications of Coronary Angioplasty
- 2. Write in detail about the indications, materials used, procedure and complications of Ventricular septal defect (VSD) Device closure

Short Essay (any ten)

10 X 5= 50 Marks

- 3. Interventional Complications
- 4. PDA device closure-indications, procedure
- 5. Right heart catheterization
- 6. Defibrillator
- 7. Coil closure of PDA
- 8. Coronary Angiographic views with diagram
- 9. Procedure and complications of Coronary angioplasty
- 10. Normal values of pressure recording in various cardiac chambers
- 11. ASD device closure- procedure and complications
- 12. Wilkin's Score
- 13. Indications and procedure of coronary angiography
- 14. Balloon mitral valvuloplasty- indications, procedure

Short Answers (any ten)

10 X 3= 30 Marks

- 15. Causes of step-up at RA, RV level in oxymetry
- 16. Write a note on cardioversion
- 17. Judkins catheter
- 18. Ventricular tachycardia
- 19. Complications of VSD device closure
- 20. Role of temporary pacing during balloon Aortic valvuloplasty
- 21. Materials used in balloon Aortic valvuloplasty
- 22. Role of echocardiography during balloon mitral valvuloplasty
- 23. Normal oxygen saturation percentage of SVC, IVC, RA, RV, LA and LV
- 24. Normal pressure tracings of RA,RV and PA
- 25. Role of echocardiography during ASD device closure
- 26. Complications of balloon Aortic valvuloplasty