Rajiv Gandhi University of Health Sciences, Karnataka

III year B.Sc. Cardiac Care Technology Degree Examination – APRIL 2015

Time: Three Hours | Max. Marks: 100 Marks

Clinical Cardiac Care Technology – I

Paper – I (RS Scheme)

Q.P. CODE: 2920

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Describe in detail about mitral stenosis and discuss the importance of Doppler Echocardiographic techniques in detail.
2. Classify congenital heart diseases– Echocardiographic evaluation of atrial septal defects in detail.
3. Discuss in detail about right heart catheterization equipment, techniques and limitations.

SHORT ESSAYS (Answer any Ten) 10 x 5 = 50 Marks

4. How to assess Prosthetic valve malfunction?
5. Guide wires
6. ECG features of cardiac tamponade
7. Echocardiographic evaluation of pulmonary Stenosis
8. ECG features of TOF
9. Angiographic views
10. Echo features of VSD
11. Use of Holter
12. Methods to evaluation diastolic function by echo
13. Material used in cathlab
14. Ventricular septal defects - classification
15. Myocardial infarction – ECG changes in anterior wall MI
16. Left heart catheterization
17. Discuss briefly about Pulmonary Valvuloplasty.

SHORT ANSWERS (Answer any Ten) 10 x 3 = 30 Marks

18. Oxymetry in various levels
19. Precordial leads
20. Infective endocarditis
21. Echo features of Coarctation of aorta
22. Radiation hazards
23. Indication of peripheral angiogram
24. Cyanotic heart diseases
25. Classification of Cardiomyopathies
26. Rheumatic fever and its sequel
27. Right ventriculogram
28. Mitral valve prolapse
29. Spontaneous echo contrast

Rajiv Gandhi University of Health Sciences, Karnataka

III year B.Sc. (Allied Health sciences) Examination – APRIL 2015

Time: Three Hours Max. Marks: 100 Marks

CARDIAC CARE TECHNOLOGY - APPLIED TECHNOLOGY PAPER – II (RS)

Q.P. CODE: 2921

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Contrast echocardiography – types, indications, procedure in detail and its clinical significance
2. Describe in detail about Myocardial infarction and its complications.
3. Transoesophageal echocardiography – indications, contraindications and its complications during the procedure

SHORT ESSAYS (Answer any Ten) 10 x 5 = 50 Marks

4. ECG features of RVMI
5. Echo features of Dextrocardia
6. ECG in STEMI
7. Angioplasty of Coarctation of aorta
8. Fetal echocardiography
9. WPW syndrome
10. ECG features of different types of Cardiomyopathy
11. Materials used in peripheral angioplasty
12. Myocardial contrast echocardiography
13. Acute pericarditis – ECG manifestations
14. ECG in hypertension
15. Materials used in coronary angioplasty
16. ECG in different types of ASD
17. Echo in HOCM

SHORT ANSWERS (Answer any Ten) 10 x 3 = 30 Marks

18. Importance of Pathological Q waves
19. Echo features of PDA
20. Angiography in Pulmonic stenosis
21. Mitral valve apparatus
22. ECG in Aortic Stenosis
23. ECG in lateral wall MI
24. Use of peripheral Doppler
25. ECG in RBBB
26. Indication of stress echo
27. Complications of angioplasty
28. Methods to evaluate blood pressure

Rajiv Gandhi University of Health Sciences, Karnataka

29. ECG in inferior wall MI

III year B.Sc. Cardiac Care Technology Degree Examination – SEPTEMBER 2015

Time: Three Hours Max. Marks: 100 Marks

Clinical Cardiac Care Technology – I

Paper – I (RS Scheme)

Q.P. CODE: 2920

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Tetralogy of Fallot – components, Echocardiographic evaluation with neat labeled diagrams
2. Discuss about Oxymetry techniques and its clinical importance in detail.
3. Coronary angiogram in detail – indications and contraindications of Angiographic technique

SHORT ESSAYS (Answer any Ten) 10 x 5 = 50 Marks

4. Right heart catheterization
5. Echocardiographic features of cardiac tamponade
6. Ventricular septal defects
7. Peripheral angiogram
8. ECG features of old MI
9. Echocardiographic evaluation of mitral regurgitation
10. Different types of angioplasty balloons
11. Importance of TEE
12. Contrast agents used in cathlab
13. ECG in mitral stenosis
14. Stress echocardiography
15. Constrictive pericarditis in Echo
16. Left ventricular systolic function by echo
17. Chamber quantification by ASE guidelines

SHORT ANSWERS (Answer any Ten) 10 x 3 = 30 Marks

18. Contrast echo
19. Doppler shift
20. ECG in LBBB
21. Echo in pericardial effusion
22. Angiographic views
23. Different types of catheters
24. Patent ductus arteriosus
25. Post MVR status evaluation on echo
26. Step up at RV level
27. Temporary pacing
28. LV angiogram

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29. Evaluation of Pulmonary hypertension by echo

III year B.Sc. (Allied Health sciences) Examination – SEPTEMBER 2015

Time: Three Hours Max. Marks: 100 Marks

CARDIAC CARE TECHNOLOGY
APPLIED TECHNOLOGY PAPER – II (RS)

Q.P. CODE: 2921

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

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Discuss stress echo – indications, techniques, interpretation and complications
2. Discuss coronary angioplasty procedure – indication, procedure, usefulness and complications.
3. Fetal echocardiography – indication, basic interpretation

SHORT ESSAYS (Answer any Ten) 10 x 5 = 50 Marks

4. ECG in RVMI
5. Peripheral doppler – techniques and indications
6. Discuss anatomy of heart valves
7. ECG in hypertension
8. Echo in PDA
9. Contrast echo
10. ECG in aortic regurgitation
11. ECG in TOF
12. Causes and evaluation of hypertension
13. PR interval
14. Echo evaluation of mitral regurgitation
15. Ventricular premature beat
16. Echo in HOCM (Hypertrophic Obstructive Cardiomyopathy)
17. ECG in atrial fibrillation

SHORT ANSWERS (Answer any Ten) 10 x 3 = 30 Marks

18. Coronary angiogram – Indications and Complications
19. Sinus bradycardia
20. Valves involved in rheumatic heart disease
21. Steps of intervention for coarctation of aorta
22. Bundle branch block
23. Indication for TEE
24. WPW syndrome – ECG changes
25. Adverse effects of radiation
26. QT interval
27. Bipolar ECG leads
28. Echo in Dilated cardiomyopathy

29 Discuss normal waves of ECG.

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