Rajiv Gandhi University of Health Sciences, Karnataka

III year B.Sc. Cardiac Care Technology Degree Examination – SEP-2017

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 ECG and 2D echo feature in Acute inferior wall and RV MI. Posterior wall MI in the first 24 to 48 hours.
2. Describe the ECG changes and 2D Echocardiographic features of Cardiac Tamponade. What are the causes? How is it Managed?
3. Describe the ECG changes in various types of A-V Block. What are the Common causes? What are the features of an ECG of a patient a Pacemaker? How will you recognize atrial fibrillation.

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

4. RV angio-Indications, Contraindication, angiographic views.
5. 2D Echo in Constrictive Pericarditis.
6. 2D Echocardiography in LA Myxoma.
7. LAA Clot –causes, Methods of Diagnosis.
8. Catheters used in coronary angiogram. Various views used in Coronary angiogram
9. LV angiogram-Indications, Contraindications and angiographic views.
10. Peripheral angiogram-Indications, Contraindications.
11. Echocardiography in PDA.
12. Pulmonary artery angiogram-Indications, Contraindications.
13. Mitral regurgitation in Ischaemic Heart disease.
14. Carotid Angiogram-Indication, Procedure.
15. Aortic Stenosis-ECG and ECHO
16. Assessment of Mitral regurgitation.
17. Renal arteriogram-Usefullness. Procedure

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

18. Temporary Transvenous Endocardial Pacemaker.
19. Contrast material used in Cardiac cath lab.
20. Haemodynamic study with use of Two Pressure Transducers in cath lad.
21. Echocardiography in Left ventricular Aneurism.
22. Radiation Hazards.
23. Prosthetic valve Malfuction.
24. Coronary angiogram-Complications.
25. Pulmonary Capilary Wedge Pressure.
26. Echocardiography in Constrictive pericarditis.
27. Draw diagrammatic pictures of Coronry artert angio in various views.
28. Air embolism
29. Digital substraction angiography.

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III year B.Sc. (Allied Health sciences) Examination – SEP 2017

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. How do you assess mitral stenosis by using different techniques in detail and indication to do Trans Esophageal Echocardiography (TEE)?
2. Contrast echocardiography – indications, contraindications and materials used in contrast in detail.
3. ECG in detail – bundle branch blocks, Wolf Parkinson White (WPW) syndrome and Dextrocardia

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

4. Brief note Fetal echocardiogram
5. Stress echo in detail – procedure and indications
6. ECG in acute pericarditis
7. ECG in Hypertrophic Cardio Myopathy (HCM) and Hypertrophic Obstructive Cardio Myopathy (HOCM)
8. Define hypertension.
9. ECG in setting of various MI
10. Transesophageal echocardiography in detail and its indications
11. ECG in various types of congenital heart diseases
12. Left ventricular non – compaction
13. Usefulness of peripheral Doppler
14. Brief note on Right Ventricular MI (RVMI)
15. Brief note on fascicular blocks
16. Myocardial contrast echo
17. Echocardiography in Ebsteins anomaly

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

18. Hyperkalemia
19. ECG in Left Ventricular Hypertrophy (LVH)
20. Radiographic contrast agents
21. ECG in pulmonary stenosis
22. P – mitrale
23. Components of Tetralogy of Fallot (TOF)
24. Sinus arrhythmia
25. Spontaneous echo contrast
26. ECG in digoxin toxicity
27. Define and classify cardiomyopathy.
28. Complications of Percutaneous Trans Mitral Commisurotomy (PTMC)

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29. Stages of hypertension

III year B.Sc. Cardiac Care Technology Degree Examination – MAR/APR 2017

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 Peripheral angioplasty – indications, contraindications and materials in detail.
2. Echocardiographic evaluation of Mitral stenosis in detail – brief note of suitability of Percutaneous Transmitral Commisurotomy (PTMC)
3. How do you assess the left ventricular systolic and diastolic function by using various parameters?

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

4. ECG features of LBBB
5. Echocardiographic evaluation of aortic dissection
6. Brief note on Tricuspid Annular Plane Systole Excursion (TAPSE)
7. Left heart catheterization
8. Materials used in balloon mitral valvotomy
9. Angioplasty – indications and contraindications
10. Discuss oximetry at various levels.
11. Echocardiographic features of PAH
12. Echo features of Patent Ductus Arteriosus (PDA)
13. ECG in acute MI
14. Echo features of constrictive pericarditis
15. Atherosclerotic plaque
16. Echo features of Hypertrophic Obstructive Cardio Myopathy (HOCM)
17. Brief note on LA thrombus

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

18. Radiation hazards
19. ECHO in Dextrocardia
20. Complications of angiogram
21. Brief note on normal ECG
22. Types of catheters
23. ECHO in VSD
24. Balloon used in angioplasty
25. Name contrast agents.
26. RV angiogram

27. ECHO in LVH
28. Echo in Dilated Cardio Myopathy (DCM)
29. Components of Tetralogy of Fallot (TOF)

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III year B.Sc. (Allied Health sciences) Examination – MAR/APR 2017

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. Define hypertension in detail. How do you record BP and its relation with the field of cardiology?
2. Discuss about coronary angioplasty in detail – procedure, indications and contraindications.
3. Transesophageal echocardiography in detail – indications, contraindications and its usefulness in various diseases.

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

4. Wolf Parkinson White (WPW) syndrome
5. Usefulness of peripheral Doppler
6. ECG in Aortic Stenosis
7. Angioplasty of Coarctation of aorta in detail
8. Contrast echocardiography in detail
9. ECG in pericarditis
10. ECG features of bundle branch blocks
11. Fetal echocardiogram
12. ECG in cardiac tamponade
13. Catheters used in angioplasty
14. ECG features of biventricular hypertrophy
15. Atrial fibrillation in detail
16. ECG in mitral stenosis
17. Peripheral Doppler

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

18. ECG in Atrial Septal Defect (ASD)
19. Materials used in peripheral angioplasty
20. Name some coronary stents
21. Indications for pacemaker implantation
22. ECG in Dextrocardia
23. Spontaneous echo contrast

24. Name some arrhythmias.
25. Pressure dampening
26. Mitral valve prolapse
27. Enumerate interventions involved in septal puncture.
28. Patent Foramen Ovale (PFO)
29. Materials used for peripheral angioplasty

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