Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Cardiac Care Technology Degree Examination – OCT-2019

Time: Three Hours | Max. Marks: 100 Marks

Introduction to Cardiac Care Technology (RS)

Q.P. CODE: 1245

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 exercise test in detail and discuss its indications and contraindications.
2. Echocardiogram – basic principles and its modalities
3. ECG features in Bundle branch blocks

SHORT ESSAYS (Answer any Twelve) 12 x 5 = 60 Marks

4. Transducer and its design
5. ECG features of left ventricular hypertrophy
6. Discuss Axis deviation in detail.
7. Normal ECG
8. M – mode echocardiogram
9. Various view of echocardiogram
10. LV dimensions by American Society of Echocardiography (ASE) guidelines
11. ECG in atrial enlargement
12. ST segment response in treadmill test
13. Applications of conventional Doppler
14. Protocols of exercise test
15. QRS – duration
16. Indications to stop exercise test
17. Hemi blocks

SHORT ANSWERS (Answer any Ten) 10 x 2 = 20 Marks

18. Define ultrasound.
19. Flow pattern of Doppler
20. ‘P’ wave
21. Calculation of heart rate by ECG
22. Pulse wave Doppler
23. Use of Trans Esophageal Echocardiography (TEE)
24. Pathological Q waves
25. ECG strips
26. Rate – pressure product
27. Different types of rhythms
28. SA node
29. Importance of ST segment

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Cardiac Care Technology Degree Examination – OCT-2019

Time: Three Hours | Max. Marks: 80 Marks

Medicine Relevant to Cardiac Care Technology (RS)

Q.P. CODE: 1246

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. Coronary circulation
2. Cardiomyopathy: types, brief description and management
3. Name the types of Aneurysms. Describe Aortic Aneurysm.

SHORT ESSAYS (Answer any Eight) 8 x 5 = 40 Marks

4. Mitral regurgitation
5. Obesity and heart disease
6. Heart in pregnancy
7. What is Acute Renal Failure?
8. Uses of pulmonary function tests
9. Cardiac issues in elderly patients
10. Neurological problems in elderly
11. Cardiac tamponade
12. Types of atrial septal defects
13. What is arrhythmia? Briefly mention types.

SHORT ANSWERS (Answer any Ten) 10 x 2 = 20 Marks

14. Name four Acyanotic Heart Disease.
15. Tetralogy of fallot
16. What is antibiotic prophylaxis?
17. Iron deficiency anemia
18. Bleeding time
19. Raynauds disease
20. List causes of stroke
21. Pericarditis
22. Name four hypertensive drugs.
23. Adrenaline
24. Various ways of measuring blood pressure
25. Dextrocardia

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Cardiac Care Technology Degree Examination – OCT-2019

Time: Three Hours Max. Marks: 80 Marks

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Cardiac Care Technology Degree Examination – APRIL-2019

Time: Three Hours | Max. Marks: 100 Marks

Introduction to Cardiac Care Technology (RS)

Q.P. CODE: 1245

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 the Doppler echocardiography principles. Clinical application and different modes
2. Explain conduction block. Add a note on various bundle branch blocks.
3. Different views and windows in transthoracic echocardiography

SHORT ESSAYS (Answer any Twelve) 12 x 5 = 60 Marks

4. B mode Echo
5. Explain the difference between continuous wave Doppler.
6. Contra indications for treadmill test
7. Contrast Echo
8. Discuss the standard limb leads and precordial leads.
9. Recognition and causes of left axis deviation
10. Indications for stopping TMT
11. Discuss the placement of chest leads.
12. Trnas esophageal Echo
13. Color flow imaging
14. Principles of electrocardiography
15. QRS complex
16. T wave and ST segment
17. Apical 4 chamber view

SHORT ANSWERS (Answer any Ten) 10 x 2 = 20 Marks

18. Write 3 complications of trans esophageal Echo.
19. Rotation of the heart
20. Left anterior hemi block
21. Structure seen in apical 2 chamber view
22. Nyquist limit
23. PR interval
24. ST segments
25. Sinus Tachycardia
26. Piezoelectric effect
27. Limitations of transthoracic Echo
28. Bundle of his
29. Laminar and non-laminar flow pattern in Doppler

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