# Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Cardiac Care Technology Degree Examination – Aug 2013

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. Describe the Various advantages of studying Electrocardiogram.
2. Exercise Stress Testing-Physiological Basis, different protocols and indications.
3. Discuss Doppler Echocardiography and Transoesophageal Echocardiography.

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

4. Bundle Branch blocks.
5. Precardial pattern of electrocardiogram
6. Analysis of Normal electrocardiogram
7. M-Mode Echocardiogram
8. Electrocardiographic criteria for Atrial enlargement
9. Contrast Echo.
10. Concept of electrical axis
11. Echocardiographic Views
12. Different probes in echocardiogram.
13. Two dimensional Echocardiography
14. Lead systems in Electrocardiography.
15 Contraindications for treadmill testing
16. ST Segment Changes in exercise stress testing.
17. Echo measurements-'American Society of Echocardiogram' recommendation.

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

18. Left ventricular Enlargement criteria in electrocardiogram
19. Q-T Interval
20. Mechanism of ST Segment changes in exercise testing.
21. Exercise Indicators of adverse prognosis in treadmill testing.
22. Various rhythms in electrocardiogram
23. Calculation of heart rate in atrial fibrillation in electrocardiogram
24. Electrical field of heart
25. Heart rate response in exercise testing
26. Electrocardiographic paper
27. Diagnostic use of exercise testing
28. 16 segment model of the left ventricle in echocardiogram.
29. Rate-Pressure Product in exercise testing

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