

Final Year BCVT Degree Supplementary Examinations February 2017**ECG, Echo, Holter****Time: 3 Hours****Max Marks: 100**

- Answer all questions
- Draw diagrams wherever necessary

Essay**(20)**

1. What is the basic physics principle behind echocardiography. What are the frequencies used in the various transducers and what is its advantage /disadvantage. Explain how you calculate left ventricular function by various methods and the limitations of each method

Short notes**(10x8=80)**

2. Complications encountered during a treadmill test
3. PR interval and PR segment in ECG and their clinical significance
4. Physiologic changes in heart rate and conduction during holter monitoring
5. Complications of trans esophageal echo
6. Different modes of exercise stress testing
7. Dobutamine stress echocardiography
8. ECG criteria for right ventricular hypertrophy
9. Severity assessment of aortic stenosis by echo
10. Types of ST and T changes during a treadmill test
11. ECG features of supraventricular tachycardia
