

July -2023

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Cardiac Care Technology

[Time: 3 Hours]

[Max. Marks: 80]

IV SEMESTER

PAPER II - (Advanced Electrocardiography)

QP CODE: 8436

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Discuss the ECG findings in Ventricular Tachycardia. How will you differentiate between Ventricular tachycardia and supraventricular tachycardia

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. ECG in Pulmonary hypertension.
3. ECG in mitral stenosis.
4. ECG changes due to electrolyte imbalance.
5. P wave abnormalities in ECG.
6. Atrial flutter versus atrial fibrillation.
7. ECG changes in pericarditis.
8. How will you give DC shock.
9. Sick sinus syndrome.
10. ECG in acute and evolved phase of myocardial Infarction.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Atrial and ventricular premature complexes.
12. Indications for Holter monitoring.
13. What are the Causes for T wave inversion in ECG.
14. Which are the leads showing RV myocardial infarction.
15. Common sites of Ablation.
16. P pulmonale.
17. Causes for Right axis deviation.
18. ECG changes in First degree AV block.
19. Indications for cardioversion.
20. ECG features of Hyperthyroidism.
21. Einthoven's triangle.

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IV SEMESTER

PAPER III - (Advanced Echocardiography)

QP CODE: 8437

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Echocardiographic evaluation of LV Diastolic Dysfunction.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Draw neat labelled diagram of L→R shunts (ASD, VSD, PDA) seen in various echo view (A4C, PSAX, Subcostal)
3. Write the indications and contraindications of Transesophageal Echocardiography.
4. Echocardiographic assessment of Mitral regurgitation.
5. Calculation of EF by echocardiography and their limitations.
6. Wilkins score for Mitral stenosis.
7. Mention point wise, Echocardiographic features of cardiac tamponade.
8. Echocardiographic features of Tetralogy of Fallot.
9. Assessment of pulmonary hypertension by echocardiography
10. Echo features in Patent ducts arteriosus

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Coarctation of Aorta.
12. Teichholz method.
13. Type of Stress Echocardiography.
14. Echo findings in pericardial effusion.
15. Stroke volume calculation by echocardiography.
16. Mitral valve prolapse.
17. Segments of LV by echocardiography- ASE model.
18. Dilated Cardiomyopathy.
19. Classify Aortic Stenosis based on echocardiographic gradients (peak & mean).
20. Flail Mitral valve.
21. Calculation of LV mass.

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IV SEMESTER

PAPER IV - (CCT Directed Clinical Education - II)

QP CODE: 8438

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Explain biomedical waste management in detail.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What is basic life support? Explain.
3. Name different types of radiations. Briefly explain them.
4. Write briefly about defibrillator.
5. Write about colloid IV fluids.
6. What are ventilators? Briefly explain the types of ventilators.
7. Briefly explain routes of drug administration.
8. What is TMT? Explain the procedure.
9. What is autoclave? Briefly explain.
10. Briefly explain safety measures against radiation in cath lab.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Write about DNS.
12. Write basic principle of echocardiography.
13. Lignocaine
14. What is intubation?
15. Write basic principle of ECG.
16. What is advanced cardiac life support?
17. Write about alpha rays.
18. Echo transducer.
19. Hot air oven.
20. What are antibiotics?
21. Pasteurization.