

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Cardiac Care Technology

[Time: 3 Hours]

[Max. Marks: 80]

IV SEMESTER

PAPER - I (Development of Cardiovascular System, Cardiovascular Pathology)

QP CODE: 8435

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 various steps involved in Basic life support and significance of it.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Risk factors of Atherosclerosis.
3. Dilated Cardiomyopathy.
4. Causes and diagnosis of Hypertension.
5. Stages of development of embryo.
6. Clinical features of pericarditis.
7. Name different Acyanotic Heart diseases and explain.
8. Clinical features of Aortic Regurgitation.
9. Explain circulatory system with diagram.
10. Types of ASD and VSD.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Causes of chest pain.
12. Describe basic life support.
13. Shunts involved in fetal circulation.
14. What is cardiac Failure?
15. Features of Rheumatic heart disease.
16. Explain absorption of pulmonary veins.
17. Write the Components of tetralogy of Fallot.
18. Cardiac biomarkers.
19. Name the Different Cyanotic heart diseases.
20. Name three types of Cardiomyopathies.
21. Explain formation of interatrial septum.

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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. Classify Atrioventricular blocks and Explain in detail.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Radiofrequency Ablation
3. Pace maker
4. Describe the three different types of RVH on ECG.
5. ECG features of Ventricular Tachycardia.
6. Write ECG changes in electrolyte imbalance
7. ECG evaluation of acute Anterior Myocardial Infarction
8. Characteristics of complete LBBB
9. Typical ECG findings in atrial fibrillation and atrial flutter.
10. ECG features of LVH and RVH

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Indications for termination of TMT.
12. List out the causes of low voltage QRS Complex.
13. Various ST patters described in Treadmill Test.
14. Draw Einthoven's triangle.
15. ECG features of ventricular premature complex.
16. Define Tachycardia and Bradycardia.
17. How to calculate Target Heart Rate.
18. ECG in mitral stenosis.
19. 2:1 second degree AV Block.
20. ECG changes in Pericarditis.
21. Causes of T wave inversion in ECG.

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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. Write Indications, Contraindications and procedure of Dobutamine stress echocardiography.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Draw neat labelled diagram of different echo views of the heart.
3. What is bubble contrast echocardiography and why it is used?
4. Echocardiographic assessment of Aortic Stenosis.
5. Echocardiographic evaluation of Mitral stenosis in detail.
6. Explain echo features of cardiac tamponed.
7. Echocardiographic features of Tetralogy of Fallot.
8. How to Calculation of EF by echocardiography?
9. Assessment of pulmonary hypertension by echocardiography
10. Echo features in Patent Ducts Arteriosus

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Dilated Cardiomyopathy.
12. Coarctation of Aorta.
13. Teichholz method.
14. Classify Aortic Stenosis based on echocardiographic gradients (peak & mean).
15. Different types of Stress Echocardiography.
16. Echo findings in pericardial effusion.
17. Stroke volume calculation by echocardiography.
18. Segments of LV by echocardiography- ASE model.
19. Flail Mitral valve.
20. Mitral valve prolapse.
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. What is fluid therapy? Explain different types of IV fluids.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Write physical methods of sterilization.
3. Explain effects of Radiation.
4. Explain Basic Life Support.
5. What can be and cannot be sterilized in an autoclave.
6. How and when to use defibrillator?
7. Indications and contraindications of TMT.
8. Name different types of radiations. Briefly explain them.
9. Biochemical waste management.
10. Write principle of Ultrasound.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. ECG in acute Myocardial Infarction.
12. Write uses and types of ventilators.
13. Write about IV fluids.
14. What are the steps of intubation?
15. What are gamma rays?
16. Write Uses of Radiation.
17. Write the process of pasteurization.
18. What is the use and temperature of Hot Air Oven?
19. Uses and side effects of Antibiotics.
20. Write uses of DNS
21. Write difference between colloid and crystalloid.