

2/7/24

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. Explain stages of development of embryo.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Diagnosis and management of Atrial Septal Defect.
3. Dilated Cardiomyopathy
4. Hypertension- Causes and Diagnosis
5. Risk Factors for IHD
6. Constrictive Pericarditis- clinical features
7. Classification of Congenital Heart Disease- Describe clinical Presentation
8. Define Heart Failure, Discuss the clinical features and management
9. Diagnosis of Infective Endocarditis
10. Diagnosis and management of Double outlet right Ventricle (DORV)

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Components of Tetralogy of Fallot (TOF)
12. Write the Etiologies of Mitral Stenosis
13. List the major criteria for the diagnosis of Acute Rheumatic Fever
14. Name the cyanotic congenital heart diseases
15. Write clinical features and management of cardiac tamponade
16. Risk factors of atherosclerosis
17. Clinical features of severe Aortic Stenosis
18. Evaluation of pulmonary hypertension
19. Management of hypertensive emergency
20. Cardiac biomarkers
21. Write in detail about azygous vein.

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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. What are the Common sites of Ablation?
3. Electrocardiographic effects of hypokalemia.
4. Describe the three different types of RVH on ECG.
5. ECG features of Ventricular Tachycardia.
6. Write ECG changes in Ischemia, injury and infarction.
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 patterns described in Treadmill Test.
14. Draw Einthoven's triangle.
15. ECG features of ventricular premature complex.
16. What are the Indications for Cardioversion?
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. Echocardiographic evaluation Mitral Stenosis and Aortic Stenosis.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Echo Features of Hypertrophic Cardiomyopathy.
3. Write Echo features of Mitral Regurgitation.
4. Write different method to calculate LV Systolic Function.
5. Echo features of Pulmonary Hypertension.
6. Draw LV Segments.
7. Write Indications and contraindication of Stress Echo.
8. Write Types of ASDs and its Echo features.
9. Wilkins Score for Mitral Stenosis.
10. Echo features of VSD and writes different types.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Pericardial effusion.
12. Flail mitral valve.
13. LV Mass calculation.
14. Write Indications for Transesophageal echo.
15. Pressure Half Time.
16. Explain Nyquist Limit.
17. Continuity Equation.
18. How to calculate stroke volume by echo.
19. PISA Method.
20. Write Difference between RV and LV.
21. Normal LV and RV measurements.

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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 Advance life support.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Explain sterilization in detail.
3. Name different types of radiations. Briefly explain them.
4. Write about colloid IV fluids.
5. What is autoclave? Briefly explain.
6. Write briefly about defibrillator.
7. What is TMT? Explain the procedure.
8. What are vital signs? Write their normal range.
9. How to properly dispose Biochemical waste?
10. Briefly explain safety measures against radiation in Cath lab.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Types of transducers used in echo.
12. Write basic principle of ECG.
13. Write about Lignocaine.
14. What are alpha rays?
15. Write about pasteurization.
16. Hot air oven
17. What are antibiotics?
18. Write about DNS
19. What is intubation?
20. Basic life support.
21. What are ventilators?