

BLDE (DEEMED TO BE UNIVERSITY) July 2023

B.Sc. in Cardiac Care Technology

[Time: 3 Hours]

[Max. Marks: 80]

III SEMESTER

PAPER - II (Basic Electrocardiography)

QP CODE: 8336

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Exercise Stress Test: Protocol, Procedure, Indications, Contraindications, Complications

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. LVH
3. ECG changes in second degree AV block
4. Explain Electrical Axis
5. Batrial Enlargement
6. Bifasciular Block
7. Types Of AV Block
8. Normal ECG
9. ~~Lead Placement In ECG~~ Anatomical position of ECG leads.
10. Tachycardia

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. PR Interval
12. Augmented Limb Leads
13. Incomplete LBBB
14. Artifacts In Stress Test
15. Lead Placement In ECG
16. Lead Placement In Stress Test
17. Complete AV Block
18. Sinus Bradycardia
19. Trifascicular Block
20. U wave
21. Rohmit And Estes Point Score System

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III SEMESTER

PAPER - III (Basic Echocardiography)

QP CODE: 8337

Your answer should be specific to the questions asked.
Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Draw neat and labelled diagrams of different 2D echo views

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Explain M-mode Echocardiography
3. Continuous wave Doppler and pulse wave Doppler
4. Placement of transducer
5. Draw labelled diagram of 17 segments of LV.
6. Contrast echocardiography
7. Explain Doppler principle
8. Diastolic murmurs
9. Mention various modes used in 2D Echo.
10. Define resolution and describe its components.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Bernoulli Equation
12. Tissue Doppler imaging
13. What are the different transducers used.
14. Color Doppler
15. Pulse wave Doppler
16. Continuity Equation
17. What is Aliasing
18. Systolic murmurs
19. What type of murmur present in AR
20. Piezoelectric effect
21. Specular and scattered echoes.

4-2-23

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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 Fetal circulation and changes in circulation after birth.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Dilated Cardiomyopathy
3. Hypertension- Causes and Diagnosis
4. Classification of Congenital Heart Disease- Describe clinical Presentation
5. Constrictive Pericarditis- clinical features
6. Diagnosis and management of Atrial Septal Defect.
7. Risk Factors for IHD
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. Name the cyanotic congenital heart diseases
12. Write clinical features and management of cardiac tamponade
13. Risk factors of atherosclerosis
14. Cardiac biomarkers
15. Components of Tetralogy of Fallot (TOF)
16. Clinical features of severe Aortic Stenosis
17. Evaluation of pulmonary hypertension
18. List the major criteria for the diagnosis of Acute Rheumatic Fever
19. Write the Etiologies of Mitral Stenosis
20. Management of hypertensive emergency
21. Write in detail about azygous vein.