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Jan-2023,

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) OP 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. Define Hypertension- Enumerate causes, diagnosis & management of secondary hypertension.

Short Essays: (Any - 8)

 $5 \times 8 = 40 \text{ Marks}$

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

Short Answers: (Any - 10)

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

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IV SEMESTER

PAPER II - (Advanced Electrocardiography) OP 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. ECG changes in acute Myocardial Infarction and delineation of coronary involvement.

Short Essays: (Any - 8)

 $5 \times 8 = 40 \text{ Marks}$

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

Short Answers: (Any - 10)

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

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IV SEMESTER

PAPER III - (Advanced Echocardiography) OP 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. Segmental echocardiographic approach to congenital heart diseases.

Short Essays: (Any - 8)

 $5 \times 8 = 40 \text{ Marks}$

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

Short Answers: (Any - 10)

- 11. Mitral valve prolapse.
- 12. Coarctation of Aorta.
- 13. Teichholz method.
- 14. Type of Stress Echocardiography.
- 15. Pericardial effusion.
- 16. Stroke volume calculation by echocardiography.
- 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. LV mass calculation by Echocardiography.

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[Time: 3 Hours]

[Max. Marks: 80]

IV SEMESTER

PAPER IV - (CCT Directed Clinical Education - II) OP 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)

 $5 \times 8 = 40 \text{ Marks}$

- 2. Briefly explain the Types of Radiation.
- 3. Defibrillator.
- 4. What is basic life support. Explain.
- 5. What are ventilators? Briefly explain the types of ventilators.
- 6. Explain the procedure of TMT and write the Indications and contraindications of TMT.
- 7. What is autoclave? Briefly explain.
- 8. Briefly explain routes of drug administration.
- 9. Write about colloid IV fluids.
- 10. Briefly explain safety measures against radiation in cath lab.

Short Answers: (Any - 10)

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