

3/24

**BLDE (DEEMED TO BE UNIVERSITY)**

**B.Sc. in Cardiac Care Technology**

[Time: 3 Hours]

[Max. Marks: 80]

**V SEMESTER**

**PAPER - I (Medical Instrumentation Relevant to Cardiac Care)**

**QP CODE: 8535**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. Write In detail about Ventilators.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Write about counter pulsation.
3. Write in detail about CPAP.
4. Explain different views and positions used in coronary angiography.
5. Explain Pulse Oximeter.
6. Write about C-Arm.
7. Write Intubation protocols.
8. Write about transducers.
9. Write about methods of sterilizations of equipment's.
10. Write about defibrillator.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. What are the Safety measurements used in Cath-lab?
12. Write normal spirometry measurements.
13. What is PEEP? Write normal value?
14. What is weaning in IABP and Ventilator?
15. What are the normal hemodynamic pressures of heart?
16. Draw a normal spirometry graph.
17. Write 3 breathing pattern in SIMV.
18. What is augmentation in IABP?
19. What is hypoxia and hyperoxia? Write normal values?
20. Write the different modes of Ventilators.
21. Write about Tidal Volume? What is the normal value?

# BLDE (DEEMED TO BE UNIVERSITY)

7/24

## B.Sc. in Cardiac Care Technology

[Time: 3 Hours]

[Max. Marks: 80]

### V SEMESTER

#### PAPER - II (Cardiovascular Diseases Pertinent to Cardiac Care Technology)

QP CODE: 8536

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

#### Long Questions

10X1 = 10 Marks

1. Heart Failure.

#### Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Write in detail about Deep Vein Thrombosis
3. Compare characteristics of arterial venous disorders
4. Explain diagnostic tests for COPD
5. Explain aneurism
6. Discus about AS
7. Discus MR
8. What is cardiac arrest? Write its management
9. Pulmonary Function Test
10. Varicose vein

#### Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What is arterial insufficiency?
12. Causes of COPD
13. Drugs used for COPD
14. Thrombophlebitis
15. Anatomy of arteries and veins
16. What is preload and after load?
17. What is cardiac output?
18. What is stroke volume?
19. Write Intranodal conduction pathway
20. What is I: E ratio? Write normal value
21. What is Ejection Fraction?

**BLDE (DEEMED TO BE UNIVERSITY) 5/07/2024**

**B.Sc. in Cardiac Care Technology**

[Time: 3 Hours]

[Max. Marks: 80]

**V SEMESTER**

**PAPER - III (Invasive Cardiology)**

**QP CODE: 8537**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. Carotid Angiography

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Write in detail about positive contrast agent
3. Explain Segments of echocardiography with neat labelled diagram
4. Explain different types of aortic arch with labelled diagram
5. Write about coronary artery anatomy
6. Draw a neat labelled diagram of ECHO views
7. Explain guide wires and catheters
8. Explain types of stents
9. Explain dominance system of heart
10. Explain action potential mechanism

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. What is seldinger technique
12. What is Type I, Type II, Type III aortic arch
13. Draw a neat labelled diagram of coronary arteries
14. Write complications of PTCA
15. Basic requirements of contrast media
16. Names types of catheters
17. Write branches of left coronary artery
18. Name negative contrast agents
19. What is double contrast agent? Name them
20. What is resting membrane potential?
21. Complications of PTCA

7/24

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## B.Sc. in Cardiac Care Technology

[Time: 3 Hours]

[Max. Marks: 80]

### V SEMESTER

#### PAPER - IV (CCT Directed Clinical Education III)

QP CODE: 8538

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

#### Long Questions

10X1 = 10 Marks

1. What are Anticoagulants? Name few Anticoagulant drugs and write about it.

#### Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Explain Vasopressors.
3. What is fluid therapy? Explain types of fluids.
4. Explain antihypertensive drug.
5. What are vital signs? Write management of and pathology of Bradycardia.
6. Write about IV cannulas.
7. Explain CPR in detail.
8. Write about Heart Sounds.
9. Explain Sterilization.
10. Biomedical waste management.

#### Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Write few points about Adrenaline.
12. Write About D5.
13. Write about sterility during IV cannula insertion.
14. What are the different types of ECHO probes?
15. Write about Noradrenalin.
16. Write about Isotropic action of heart?
17. What is Sinus rhythm?
18. Write about Frusemide.
19. What is oncotic pressure?
20. Write Uses of Lignocaine.
21. What are the Hazard of Radiation in Cath lab?