

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Cardiac Care Technology

1/1/26

[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. Explain Defibrillator.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Write Spirometry.
3. Write about IABP.
4. Write about pulse Oximetry.
5. Explain modes of ventilator.
6. Write about CT scanning.
7. What is C-Arm?
8. Explain Transducers.
9. Explain Trade Mill Test.
10. Write about stress ECHO.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Write about Burs Protocol.
12. What is the principle of counter pulsation?
13. Write Safety measurement used in Cath-lab.
14. Sterilization of equipment's.
15. What is Timing & Trigger in IABP?
16. Write and define types of ventilators.
17. Biomedical waste management.
18. What is weaning in IABP & ventilator?
19. Working principle of MRI.
20. Working principle of CT scanning.
21. Indication for Extubation?

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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. Discuss about AS
7. Discuss 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?

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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. Explain guide wires and catheters.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Explain echocardiographic segments of left ventricle with diagram.
3. Explain carotid angiography.
4. Explain action potential.
5. Contrast media.
6. Explain Coronary artery anatomy with labeled diagram.
7. Explain ECHO views with labeled diagram.
8. Explain dominance system of the heart.
9. Explain coronary angiography.
10. Pre-operative assessment of patients.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What is Bovine arch?
12. Draw a neat labeled diagram of arch of aorta.
13. Indications for PTCA.
14. Name branches of right coronary artery.
15. Name balloon angioplasty catheters.
16. Name positive contrast agent.
17. What is seldinger technique?
18. Branches of left coronary artery.
19. What is sheath?
20. Write history of contrast media.
21. What is Type I, Type II, Type III aortic arch?

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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. Anticoagulant Drugs

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. Discuss Heart Sounds
6. Explain IV cannulas
7. Explain CPR
8. Explain Sterilization
9. Biomedical waste management
10. What are vital signs? Write management of and pathology of Bradycardia

Short Answers: (Any – 10)

3 X 10 = 30 Marks

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