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(K)

JAN - 2024

**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. What is Counter Pulsation? Explain.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Write about defibrillator.
3. Write about MRI scanning.
4. Write about spirometer & PFT.
5. Explain modes of Ventilators.
6. Write in detail about Fluoroscopy.
7. Write about Pulse Oximeter.
8. Write in detail about Bi-PAP.
9. Write about SIMV & Pressure Support Ventilation.
10. Write pharmacological management of ventilators.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. What is the use of Helium in IABP?
12. Write Views and positions used in fluoroscopy.
13. Write about pacemaker?
14. Write normal hemodynamic pressures of heart.
15. Write normal lung volumes.
16. What are the different TMT protocols?
17. What is weaning In IABP and ventilator?
18. Draw a labeled diagram of augmented IABP wave.
19. Write Indications for intubation.
20. What is positive and negative pressure ventilator?
21. What is CT scanning? Write uses.

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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. COPD

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Discuss Venous Disorders
3. What is Cardiac Arrest? Write its management
4. Explain Varicose vein
5. Pharmacological management of Heart Failure
6. Write New York Heart Association classification of Heart Failure
7. Discuss Coronary artery diseases
8. Discuss Right Heart Failure
9. Explain PFT procedure
10. Explain arterial disorders

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. What is Vital Capacity?
12. What is Forced Expiratory Volume?
13. Causes of RHD
14. Early symptoms of RHD
15. Deep Vein Thrombosis
16. What is systolic heart failure?
17. What is Cardiac Index? Write normal value
18. Write normal conduction pathway
19. Causes for peripheral vascular diseases
20. What is venous insufficiency?
21. Early symptoms of RHD

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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 Coronary Angiography

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Write about Contrast Media
3. Guide wires and catheters used in coronary angiography
4. Explain dominance system of heart
5. Write about coronary artery anatomy
6. Write Pre-operative patient preparation and Post-operative management
7. Write Coronary assessment in angiography with grading
8. Write about types of stent
9. Peripheral carotid angiography
10. Explain action potential mechanism

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Write history of contrast media
12. What are the requirements of contrast agent
13. Write branches of right coronary artery
14. What are the indications for PTCA
15. Write steps for insertion of catheter
16. What is sheath?
17. Area distribution of left coronary artery
18. What is Type I, Type II & Type III aortic arch
19. Draw a neat labeled diagram of arch of aorta
20. Draw a neat labeled diagram of coronary artery
21. Complications of PTCA