

July-2022

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Cardiac Care Technology

[Time: 3 Hours]

[Max. Marks: 80]

III SEMESTER

PAPER - I (Applied Anatomy, Physiology & Pharmacology)

QP CODE: 8335

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Section A (Anatomy & Physiology)

Long Questions

10X1 = 10 Marks

1. Define coronary circulation under the following headings
 - a) Branches of coronary artery
 - b) Coronary Artery diseases & Investigations

Short Essays: (Any – 4)

5 X 4 = 20 Marks

2. Cardiac output
3. Pericardial effusion
4. Pulmonary circulation
5. Myocardial infarction
6. Conducting system of the heart

Short Answers (Any – 5)

2 X 5 = 10 Marks

7. ECG
8. Mitral valve prolapse
9. Sphygmomanometer
10. Transverse pericardial sinus
11. Atrial Septal defects
12. Pulse

Section B (Pharmacology)

Long Questions

10X1 = 10 Marks

1. Describe mechanism of action, therapeutic uses and adverse effects of Alpha-Blockers.

Short Essays: (Any – 4)

5 X 4 = 20 Marks

2. Describe briefly about adverse drug reactions.
3. Write pharmacological basis for use of Pilocarpine in Glaucoma.
4. Mechanism of action and Therapeutic uses of Amiodarone.
5. Mechanism of action and Therapeutic uses of Enalapril.
6. Therapeutic uses and adverse effects of Adrenaline.

Short Answers (Any – 5)

2 X 5 = 10 Marks

7. Mechanism of action of Dextran.
8. Three therapeutic uses of Penicillins.
9. Three therapeutic uses of Aspirin.
10. Write three uses and three contraindications to Morphine.
11. Define plasma half life and write its significant.
12. Write three uses and three contraindications to Atropine.

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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. Describe normal conduction system of the Heart.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What does PR interval indicate and what is its relation with heart rate.
3. SI, SII, SIII syndrome.
4. What is meant by clockwise and counterclockwise rotation of Heart
5. What is normal QRS pattern in AVR? *ECG in LBBB & RBBB*
6. Heart rate calculation in atrial fibrillation.
7. Calculation of QT & QTc.
8. Unipolar leads
9. ECG changes in LVH & RVH
10. Rotation of the heart.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Draw a hexaxial reference System
12. Explain placement of ECG leads
13. What is 'U' wave? Write conditions where it prominent
14. Different methods of calculating HR
15. ECG changes in right atrial enlargement
16. Normal P wave pattern in leads II, III, V1
17. When do you say the ECG shows left axis deviation
18. QRS pattern in lead AVR
19. Draw the normal propagation of R wave in leads V1-V6
20. First degree AV block.
21. QTc Interval