JAN-2024

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: 8335/8338

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Section 8335 (Anatomy & Physiology)

Long Questions **10X1 = 10 Marks**

1. Explain Heart under following heading

a) Location, b) Surfaces, c) Borders, d) Chambers and e) Valves of the Heart

Short Essays: (Any – 4) **5 X 4 = 20 Marks**

2. Myocardium
3. Endocardium
4. Pulmonary circulation
5. Semilunar valve
6. Formation of Inferior Vena cava

Very Short Essay (Any – 5) **2 X 5 = 10 Marks**

7. ECG
8. Mitral valve prolapse
9. Homeostasis
10. Jugular vain
11. Middle cerebral artery
12. Femoral Artery

Section 8338 (Pharmacology)

Long Questions **10X1 = 10 Marks**

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

Short Essays: (Any – 4) **5 X 4 = 20 Marks**

2. Write pharmacological basis for use of Salbutamol in Bronchial asthma.
3. Mechanism of action and Therapeutic uses of Organic nitrates.
4. Mechanism of action and Therapeutic uses of Penicillins.
5. Mechanism of action and Therapeutic uses of Morphine.
6. Mechanism of action and Therapeutic uses of Aspirin.

Short Answers (Any – 5) **2 X 5 = 10 Marks**

7. Name three Cardio selective B - blocks
8. Write three anti - thrombotic drugs.
9. Write three drugs useful in atrial fibrillation.
10. Three advantages of second generation Anti-histaminics.
11. Name three hepatic microsomal inducers.
12. Write three uses of Prazosin.

JAN. 2024

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Cardiac Care Technology

[Time: 3 Hours] **[Max. Marks: 80]**

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. Write Indications, procedure and indications for termination of exercise TMT.

Short Essays: (Any – 8) **5 X 8 = 40 Marks**

2. ECG in LBBB & RBBB.
3. ECG in complete AV Block.
4. Explain normal ECG
5. Write about Augmented limb leads
6. Explain different methods of calculation of Heart Rate
7. Electrical axis of the heart
8. Fascicular blocks
9. ECG in LVH And RVH
10. Cardiac rotation

Short Answers: (Any – 10) **3 X 10 = 30 Marks**

11. Biatrial enlargement
12. Lead placement in ECG
13. U wave
14. QRS pattern in lead AVR
15. Draw the normal propagation of R wave in leads V1 to V6.
16. First degree AV block
17. Incomplete RBBB
18. Romhit and Estes point score system
19. Discuss the precordial leads
20. Transition Zone
21. QRS Complex

JAN-2024

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Cardiac Care Technology

[Time: 3 Hours] **[Max. Marks: 80]**

III SEMESTER

PAPER - III (Basic Echocardiography)

QP CODE: 8337

Your answer should be specific to the questions asked.
Write Question No. in left side of margin.

Long Questions **10X1 = 10 Marks**

1. M-Mode And 2D Echocardiography

Short Essays: (Any – 8) **5 X 8 = 40 Marks**

2. Color Flow Doppler
3. Measurements In Echocardiography
4. Heart Sounds
5. Draw various views in Echocardiography
6. Continuous Wave Doppler
7. Transducer: Basic Principles And Types
8. Pulsed Wave Doppler
9. Doppler Effect
10. Contrast Echo

Short Answers: (Any – 10) **3 X 10 = 30 Marks**

11. Systolic Murmurs
12. Heart Murmur: Its Correlation with Echo
13. Tissue Doppler Imaging
14. Spectral Doppler
15. Laminar And Turbulent Flows
16. Specular and scattered Echoes
17. Aliasing
18. Piezoelectric Crystals And Its Effect
19. Basic Principles Of Ultrasound
20. Knobs On Echo Machine: Function
21. Normal Variants In Echo