

June-2023

**BLDE (DEEMED TO BE UNIVERSITY)
BACHELOR OF PHYSIOTHERAPY**

[Time: 3 Hours]

[Max. Marks: 80]

**I SEMESTER
PAPER - I (Anatomy - I)
QP CODE: 8120**

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

Long Questions

10X1 = 10 Marks

1. Describe Brachial Plexus under following headings
a. Formation b) Parts c) Branches & d) Applied anatomy

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Explain shoulder joint
3. Write short note on Bronchopulmonary segment
4. Explain parts of developing long bone and its blood supply
5. Write a brief note on connective tissue
6. Explain Radio ulnar joint
7. Biceps Brachii
8. Cubital fossa
9. Sternoclavicular Joint
10. Articulating surfaces of TM joint

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Cardiac Muscle
12. Typical Thoracic Vertebrae
13. Radial groove
14. Openings of diaphragm
15. Arch of Aorta
16. Types of Muscle
17. Synovial joint
18. Meiosis
19. Atypical 1st Rib relations
20. Carpal bones
21. Intercostal Muscles

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**I SEMESTER
PAPER - II (Physiology - I)
QP CODE: 8121**

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

Long Questions

10X1 = 10 Marks

1. Define coagulation of blood. Explain mechanism of coagulation.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Explain chloride shift
3. Types of WBCs and explain structure and functions of each WBC.
4. Explain Isotonic and isometric contraction of muscle
5. Explain conducting system of heart with neat labelled diagram
6. Composition and function of saliva
7. Explain types of active transport mechanism in detail.
8. Explain Simple muscle twitch in muscle fiber with neat labelled diagram
9. Define hemostasis. Explain Stages of hemostasis
10. Explain different phases, composition and function of Gastric juice secretion.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define erythropoiesis. Give normal values of RBCs in male and female
12. Define and give normal value: Tidal Volume, Residual Volume, FEV1
13. Movements of small intestine
14. Define muscle tone. What is hypertonia and hypotonia?
15. Difference between ICF and ECF
16. Define Cardiac output. Give its normal value.
17. All or none law
18. Draw neat labelled diagram of cell membrane
19. Name muscles of respiration
20. Enlist types of fats.
21. Draw a neat labelled diagram of action potential in nerve fiber

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I SEMESTER

PAPER - III (Biochemistry - I)

QP CODE: 8122

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

Long Questions

10X1 = 10 Marks

1. Describe the classification and biomedical importance of carbohydrates.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What are lipoproteins/ name them with their normal ranges.
3. Describe the factors affecting the enzyme catalyzed reactions
4. What are vitamins? Write a note on their classification
5. What is glycogen? State biomedical importance of it?
6. What are essential amino acids? Name them.
7. Describe the clinical utility of serum enzyme measurements with suitable examples
8. Mention the dietary sources and daily requirements of Vitamin E
9. Functions of cholesterol.
10. Describe the causes and features of Vitamin D deficiency.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What are essential fatty acids/? Name them with their importance.
12. What is beri beri? What are its features?
13. Write normal ranges for 1. CK-MB. 2. AST. 3. ALT
14. Denaturation of proteins.
15. Important functions of albumin.
16. What are purines and pyrimidines?
17. State causes for Hypoproteinemia?
18. Which sugars are present in nucleic acids?
19. What is active site and what is enzyme inhibition?
20. Define electrophoresis? Mention about its applications?
21. Name the disaccharide which is non-reducing sugar and why it so?

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I SEMESTER
PAPER - IV (Kinesiotherapy)
QP CODE: 8123

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 shoulder joint biomechanics

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What is mechanical advantage? Explain mechanical advantage in relation to pulleys
3. Define Centre of gravity, base of support and line of gravity
4. Biomechanics of cervical spine
5. Enumerate various grips of hand in detail
6. Explain the biomechanics of temporomandibular joint
7. Supination twist
8. Write a note on closed and open kinematics
9. Define Joint? Classify with examples & add a note on features of the synovial joints
10. Describe the structure of elbow joint and explain the factors affecting the stability of the elbow joint.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Tipping of scapula
12. Lateral prehension
13. Define angle of pull
14. Define power and work
15. Carrying angle
16. Define axis and planes
17. What are the muscles of expiration
18. What is concentric and eccentric contraction?
19. What are different types of goniometer
20. Define torque and name the anatomical pulleys in human body
21. Young's modulus