BPT. March - 2025

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 the shoulder joint under following headings

   a. Type b. Articular surfaces c. Ligaments d. Movements e. Applied anatomy

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

2. Histology of lymph node
3. Functions of Skin
4. Name the muscles of tongue with nerve supply
5. Opening in the middle meatus
6. Muscles of soft palate
7. Deltoid muscle- origin, insertion, nerve supply and action.
8. Layers of eyeball
9. Blood supply of heart
10. Epiphysis

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

11. Types of neuron
12. Parts of Ear
13. Hard palate.
14. Thoracic cage.
15. Superior mediastinum
16. Muscles of respiration
17. Histology of thymus(diagram only)
18. Types of arteries
19. Sternocleidomastoid.
20. Name the muscles of hand
21. Movements occurring at TM joint

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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 cardiac output. Mention normal value. Describe factors affecting it.

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

2. Explain neural regulation respiration
3. Describe the source & functions of surfactant
4. Describe neuromuscular transmission with neat diagram
5. Describe conducting system of heart
6. Erythroblastosis foetalis
7. Functions of Pancreatic juice
8. Explain ECG with neat diagram
9. Define and explain stages of Erythropoiesis. Add note on factors regulating.
10. Functions of liver

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

11. Diffusion
12. Functions of eosinophil
13. Define and normal values- i) stroke volume ii) End diastolic volume
14. Mastication
15. Myasthenia gravis
16. Periodic breathing
17. Pace maker
18. Deglutition apnea
19. Cross-matching
20. Coronary blood flow
21. Refractory period

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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 chemistry, sources, daily requirement, biochemical functions and deficiency manifestations of Vitamin A. [1+1+1+3+4]

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

2. Phospholipids
3. Disaccharides & its importance
4. Classify proteins based on their functions with suitable examples
5. Structure and functions of plasma membrane
6. What are Coenzymes & Cofactors? List the coenzyme form of any three water soluble vitamins
7. Define enzyme and classify them.
8. Heteropolysaccharides
9. Explain the mechanism of enzyme action
10. Active transport

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

11. Invert sugar
12. Mitochondria.
13. Beriberi
14. Endoplasmic reticulum
15. Essential amino acids
16. Enzyme specificity
17. Effect of temperature on enzyme action
18. Facilitated diffusion
19. Primary structure of protein
20. Epimers
21. Isoelectric pH

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I SEMESTER
PAPER - IV (Kinesiotherapy - I)
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. Describe ribcage & discuss about kinetics & kinematics of thorax in detail.

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

2. Discuss about types of muscle contraction.
3. Classify joints & add a note on anyone type.
4. Add a note on composition of forces with human body examples.
5. External forces.
6. Add a note on carrying angle & its importance.
7. Define & explain arthrokinematics (spin, roll & glide)
8. Add a note on muscles of hand.
9. Add a short note on shoulder complex.
10. Discuss Lumbar spine kinematics.

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

11. Potential energy
12. Ranges of muscle work.
13. Optimal length tension relationship.
14. Newton's third law.
15. Synovial membrane.
16. Define biomechanics.
17. Winging of scapula.
18. Mention properties of connective tissue.
19. Torque.
20. Concurrent forces.
21. Enumerate movements at atlanto-occipital joint.