

BPT. March - 2025

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

[Time: 3 Hours]

[Max. Marks: 100]

**FIRST YEAR (REVISED)**

**PAPER I - (Anatomy)**

**QP CODE: 81200**

**Long Questions: (Any – 2)**

**10 X 2 = 20 Marks**

1. Describe the shoulder joint under following headings-a) Type and articular surfaces b) Capsule and ligaments c) Movements and muscles producing movements d) Applied anatomy
2. Describe the origin, course, branches and applied anatomy of Facial nerve in detail.
3. Describe the gross anatomy of pancreas in detail- location, parts, relations, ducts, blood supply.

**Short Essays: (Any – 10)**

**5 X 10 = 50 Marks**

4. Popliteal fossa- boundaries and contents
5. Fertilization.
6. Describe the microscopic structure of T.S of compact bone.
7. Sciatic nerve- root value, course and branches.
8. Wrist joint- Articulation and ligaments.
9. Deltoid muscle- origin, insertion, nerve supply and action.
10. Femur – parts, explain upper end in detail.
11. Bronchopulmonary segments.
12. Cerebellum.
13. Right coronary artery- origin, course, branches
14. Kidney – coverings and relations.
15. Spleen – gross anatomy.

**Short Answers**

**3 X 10 = 30 Marks**

16. Supports of uterus.
17. Differences between spermatogenesis and oogenesis.
18. Draw a neat labelled diagram of histology of elastic artery.
19. Stomach bed.
20. Sternal angle.
21. Biceps brachii muscle.
22. Name the cartilages of larynx.
23. Name the hamstrings with their nerve supply.
24. Name the branches of axillary artery.
25. Classify synovial joints with examples.

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**FIRST YEAR (REVISED)**  
**PAPER II - (Physiology)**  
**QP CODE: 81210**

**Long Questions: (Any – 2)**

**10 X 2 = 20 Marks**

1. What is erythropoiesis? Discuss the various stages of erythropoiesis? Add a note on factors influencing it
2. What is meant by arterial blood pressure? Mention the components of blood pressure with their normal values. Discuss about various regulatory mechanisms of blood pressure in brief
3. What is meant by a synapse? Give its classification. Enumerate its properties. Explain any TWO of them in detail

**Short Essays: (Any – 10)**

**5 X 10 = 50 Marks**

4. Neuromuscular Junction: Definition, Diagram & Description
5. Rh Factor
6. Cell Mediated Immunity
7. Cardiac output: Definition, Normal value & Factors influencing it
8. Lung surfactant: Definition, Source, Functions & Significance
9. Oxygen Dissociation Curve: Definition, Diagram & Description
10. Hypoxia: Definition, Classification, Causes & Salient features
11. Functions & Regulation of secretion of growth hormone
12. Juxta-glomerular apparatus: Definition, Diagram, Description & Significance
13. Spermatogenesis: Definition, Diagram, Stages & Factors influencing it
14. Receptor: Definition & properties
15. Visual Pathway: Diagram & Description

**Short Answers**

**3 X 10 = 30 Marks**

16. Draw a neat & labeled diagram of a sarcomere
17. Saltatory conduction of nerve impulse: Definition, Diagram & Significance
18. List the differences between isotonic & isometric contraction with suitable examples
19. List the functions of plasma proteins
20. Total Body Water: Definition, Compartments & their normal values
21. List the properties of cardiac muscle
22. List the functions of saliva
23. Enumerate the methods of contraception in a male individual
24. Diabetes mellitus: Cause & Features
25. Mention the causes & corrections of a) Myopia b) Hypermetropia c) Presbyopia

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[Max. Marks: 80]

**FIRST YEAR (REVISED)**  
**PAPER III - (Biochemistry)**  
**QP CODE: 81220**

**Long Questions: (Any - 2)**

**10X2 = 20 Marks**

1. What are enzymes? Classify enzymes with one example each. Explain any four factors that affect enzymes activity with a suitable diagram/
2. Discuss about the glycogen metabolism.
3. Define urea? Describe in detail the steps of urea cycle. Mention Two condition their Serum Urea level is raised? Enlist two inborn errors associated with this process?

**Short Essays: (Any - 6)**

**5 X 6 = 30 Marks**

4. Factors affecting Basal Metabolism Rate.
5. Write in brief about hetero polysaccharides.
6. Lipoproteins, definition Classification and functions.
7. Biologically important peptides.
8. Structure and functions of DNA
9. Ketone body formation and Utilization.
10. Functions of Vitamin C.
11. Functions of Calcium.

**Short Answers:**

**3 X 10 = 30 Marks**

12. Lactose Intolerance.
13. Structure and functions of t-RNA.
14. Glycosuria.
15. Atherosclerosis and fatty liver.
16. Scurvy.
17. Selenium.
18. Structure and functions of cell membrane
19. Structure and functions of collagen.
20. Role of aldosterone.
21. Normal blood level of Urea, S uric acid and creatinine.

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[Time: 3 Hours]

[Max. Marks: 80]

**FIRST YEAR (REVISED)**  
**PAPER IV - (Kinesiology)**  
**QP CODE: 81230**

**Long Questions: (Any - 2)**

**10X2 = 20 Marks**

1. What is the difference between osteokinematics and arthrokinematics? Describe the arthrokinematics & osteokinematics of shoulder joint.
2. What are the temporal & spatial parameters of gait? Describe the kinetics & kinematics of gait.
3. Define Posture. Discuss postural reflex & explain the various postural deviations of spine

**Short Essays: (Any - 6)**

**5 X 6 = 30 Marks**

4. Explain glenohumeral rhythm.
5. Explain equilibrium & types with examples
6. Types, principles & uses of goniometry
7. Define Passive insufficiency. Explain in detail with appropriate example.
8. Explain the mechanics of rib cage movement during inspiration
9. Elements of muscle structure
10. Define joint. Write a note on synovial joint
11. Describe the walkers & types aids used in rehabilitation

**Short Answers:**

**3 X 10 = 30 Marks**

12. Pes cavus
13. Young's Modulus
14. Q angle
15. Scoliosis
16. What is active insufficiency?
17. What is elasticity
18. What are the movements of sacrum
19. What is double support time?
20. Define meniscus
21. Define Torque

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**FIRST YEAR (REVISED)**  
**PAPER V - (Psychology /Sociology)**

**QP CODE: 81240/81250**

**QP Code: 81240 – Psychology**

**[40 marks]**

**Long Questions: (Any – 1)**

**10X1 = 10 Marks**

1. Define Psychology & Explain the Branches of Psychology.
2. Define Learning & Explain the Theories of Learning.

**Short Essays: (Any – 3)**

**5 X 3 = 15 Marks**

3. Define Frustration & its Management
4. Motivation & Classification of Motivation
5. Developmental stages of human being
6. Define Attention & Explain the types of Attention

**Very Short Essay (All – 5)**

**3 X 5 = 15 Marks**

7. Conflict
8. Emotion
9. Perception
10. Growth & Development
11. Learning

**QP Code: 81250 – (Sociology)**

**[40 marks]**

**Long Questions: (Any – 1)**

**10X1 = 10 Marks**

1. Define Sociology & Explain the Scope of Sociology
2. Define Social Problem, list out the social problem & Explain any Three Social Problem

**Short Essays: (Any – 3)**

**5 X 3 = 15 Marks**

3. Social Groups
4. Function and Types of Family
5. Social Changes
6. Juvenile Delinquency

**Very Short Essay (All – 5)**

**3 X 5 = 15 Marks**

7. Role of Social factors in Health & Illness
8. Difference between Rural & Urban Community
9. Beggary
10. Socialization
11. Social Survey