

BPT. March - 2025

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

[Time: 3 Hours]

[Max. Marks: 80]

**II SEMESTER**

**PAPER - I (Anatomy - II)**

**QP CODE: 8220**

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 hip joint under the following headings: articular surfaces, ligaments, relations and movements.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Describe the coverings and contents of spermatic cord
3. Bare areas of liver
4. Stomach bed
5. Histology of testis
6. Write the muscles in the back of leg with their nerve supply
7. Adductor canal
8. Describe the interior of second part of duodenum
9. What is the position of uterus? Name the supports of the uterus
10. Name the structures present underneath the gluteus maximus

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Enumerate the branches of femoral artery
12. Write the coverings of kidney
13. Enumerate the tarsal bones
14. Name the ligaments of spleen
15. Write the characteristic gross features of large intestine
16. Name the parts of hip bone.
17. What are the contents of greater omentum
18. Name the different positions of vermiform appendix
19. Name the ligaments of knee joint
20. Histology of urinary bladder
21. Name the constrictions of the ureter

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**II SEMESTER**  
**PAPER - II (Physiology - II)**  
**QP CODE: 8221**

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

**Long Questions**

**10X1 = 10 Marks**

1. Discuss the structure, connections and functions of cerebellum. Add a note on features of cerebellar dysfunction.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Properties of Reflex.
3. Define GFR. Discuss mechanism and the factors affecting GFR.
4. List out the differences between UMN and LMN lesions.
5. Functions of thalamus
6. Enumerate the adrenal cortical hormones. Describe briefly actions of glucocorticoids
7. Define synapse. Explain any two properties of synapse
8. Brown – sequard syndrome
9. Discuss the actions of growth hormone
10. Methods of contraception in females.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Functions of middle ear
12. Hypermetropia
13. Reflex arc - Definition and structure
14. Classify receptors
15. List functions of CSF
16. List function of testosterone
17. Dwarfism-definition and causes
18. EEG
19. Olfactory pathway
20. Cushing's syndrome
21. Rods and cones- diagram and functions

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**II SEMESTER**  
**PAPER - III (Biochemistry - II)**  
**QP CODE: 8222**

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

**Long Questions**

**10X1 = 10 Marks**

1. What are Immunoglobulins? Describe the structure, types & functions of various Immunoglobulins.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Describe the role of kidney in the regulation of blood pH
3. Give an account of the water distribution and its balance in the body
4. Explain in detail Watson & Crick Double Helical Structure of DNA.
5. Dietary Fibers
6. Types of RNA
7. Protein Energy Malnutrition
8. Transport Proteins
9. Define BMR. Discuss the factors affecting BMR
10. Difference Between DNA & RNA

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Nucleosides & Nucleotides
12. Van Den Bergh test
13. Creatinine clearance
14. C-Reactive proteins
15. Biological value of proteins
16. Metabolic acidosis
17. Wilson's Disease
18. Nitrogen Balance
19. Base Pairing Rule
20. Functions of Albumin
21. Give Serum levels of a) Calcium b) Phosphorus c) Total Proteins d) Albumin  
e) Fasting Blood Glucose f) Post Prandial Blood Glucose

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**[Max. Marks: 80]**

**II SEMESTER**  
**PAPER – IV (Kinesiotherapy II)**  
**QP CODE: 8223**

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

**Long Questions**

**10X1 = 10 Marks**

1. Define Gait. Explain the determinants of gait.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Explain phases of gait in RLA terminology.
3. Describe the screw home mechanism of the knee joint.
4. Explain tibiofemoral meniscus.
5. Explain foot supination and pronation.
6. Discuss postural reflex.
7. Explain the osteokinematics of the hip joint.
8. Explain normal and abnormal postures.
9. Arches of foot.
10. Biomechanics of Ankle Joint.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Lower cross syndrome.
12. Explain movement analysis.
13. Normal ROM of ankle joint.
14. Ground reaction force.
15. Scoliosis.
16. Lateral and medial pterygoid muscle.
17. Strongest ligament in the human body.
18. Define posture.
19. Genu valgum.
20. Neck shaft angle.
21. Ligaments of knee joint.