

BLDE (DEEMED TO BE UNIVERSITY)
BACHELOR OF PHYSIOTHERAPY

[Time: 3 Hours]

[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 in detail.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Screw home mechanism of knee joint. (Locking and unlocking mechanism)
3. Define posture and factors affecting posture. Explain kinematics of posture.
4. Name the structures which help in stability of lumbar vertebral column.
5. Write a note on trabecular system of hip joint.
6. Describe in detail about structure and function of arches of foot.
7. Describe the role of cruciate ligaments in knee stability.
8. Write a note on Lumbo-pelvic rhythm.
9. Explain the motions of pelvis at hip joint.
10. Describe the structure and function of intervertebral disc.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Acetabular labrum importance.
12. Name the Ligaments of knee joint and its function.
13. Angle of inclination and angle of torsion of femur.
14. What is metatarsal break?
15. Step length.
16. Degree of toe out.
17. Plica syndrome.
18. Postural deformities.
19. Describe meniscus.
20. Write any two gait deviations.
21. What is patellar Alta and Baja?

Jan. 2023.

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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. Give the sources, RDA, biochemical functions and deficiency manifestations of calcium and add a note on calcium homeostasis.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Tumour markers *Enumerate Five liver function Tests*
3. Describe Serum protein electrophoresis
4. Define and classify nucleic acids.
5. Atherosclerosis
6. Biochemical *Parameters to diagnose Diabetes Mellitus.*
7. Watson and crick model of DNA structure.
8. Thyroid function tests
9. Lipid profile and its clinical importance
10. Write a note on the Renal regulation of pH.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What are buffers? Name any 2 buffer systems.
12. ~~Name any 4 tumor markers and their clinical significance.~~ *Essential amino acids.*
13. Define creatinine clearance test.
14. Serum cholesterol-clinical significance
15. Fluorosis
16. t-RNA
17. C-reactive proteins
18. Reference range of serum chloride levels.
19. Ig G
20. What is point of care testing?
21. Biomedical waste

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**II SEMESTER
PAPER – II (HUMAN 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. Name the refractive media of eye. Discuss the errors of refraction and their corrections with the help of diagrams

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Deafness: Definition, Types/Causes and tests to detect it
3. List the functions of hypothalamus.
4. Functions and Regulation of Growth Hormone
5. Functions and Regulation of secretion of Glucocorticoids
6. Actions of Parathormone
7. Ovulation: Definition and Tests to detect it
8. Physiological changes that occur during pregnancy
9. Referred pain: Definition and Theories
10. Electroencephalogram; Definition, Diagram, Description and Significance

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define the following a) Binocular vision b) Blind spot
12. Draw a neat and labeled diagram of Organ of Corti
13. Thyroid Stimulating Hormone: Actions and Regulation of its secretion
14. List the actions of Insulin
15. Role of Anti Diuretic Hormone
16. List the actions of Progesterone
17. Enumerate any two hormones essential for lactation. Specify their role in lactation
18. Enlist contraceptive methods in female individuals
19. Enlist the modes of heat loss from the body
20. Reflex: Definition and List the properties
21. List the differences between EPSP and IPSP

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[Max.Marks: 80]

II SEMESTER
PAPER – I (HUMAN 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 Stomach under the following headings
i) Location, ii) External features iii) Relations vi) Blood supply.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Spleen
3. Draw a neat labelled diagram of Male Urethra
4. Fallopian Tube
5. Histology of Testis
6. Supports of Uterus
7. Hamstring Muscle
8. Histology of lymph node
9. Ligaments of Urinary bladder
10. Sciatic nerve

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Difference between Duodenum Jejunum & Ileum
12. Layers of Scrotum
13. Popliteal fossa
14. Internal Iliac artery
15. Parts of the Fallopian tube
16. Coverings of Kidney
17. Functions of Gall bladder
18. Femur bone
19. Name Lymphoid organs
20. Sartorius
21. Difference between endocrine and exocrine glands

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BLDE (DEEMED TO BE UNIVERSITY)
B.Sc. BIOTECHNOLOGY

[Time: 3 Hours]

[Max.Marks: 80]

I SEMESTER
PAPER – I (CELL BIOLOGY)
QP CODE: 8176

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 cancer, its type and characteristic of cancerous cell.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Write in brief about structure of nucleus
3. Ion gated channels.
4. Function of endoplasmic reticulum.
5. Write in short about photophosphorylation and its type.
6. Passive transport across cell membrane.
7. Centriole.
8. What are lysosomes write its structure and types.
9. Difference between prokaryotic and eukaryotic cell.
10. Explain lipid bilayer.

Very Short Essay (Any – 10)

3 X 10 = 30 Marks

11. Define exocytosis and endocytosis
12. Write in brief about cell wall and its function
13. Role of ribosomes in protein synthesis.
14. ATP.
15. Carcinogenic agent.
16. Active transport mechanism.
17. Chromatin.
18. Extracellular matrix.
19. Mitosis.
20. Cytoplasm.
21. Osmosis