

July-2022

BLDE (DEEMED TO BE UNIVERSITY)

BACHELOR OF PHYSIOTHERAPY

[Time: 3 Hours]

[Max.Marks:80]

I SEMESTER

PAPER – I (ANATOMY)

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 Cubital fossa in terms of boundaries, contents and applied aspects. (4+3+3)

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Classify joints and explain synovial joint.
3. Mediastinum.
4. Microscopic structure of compact bone.
5. Right atrium
6. Radio-ulnar joint.
7. Classify Epithelial tissue and explain stratified epithelium.
8. Skeletal muscle.
9. Pericardium
10. Bronchopulmonary segments.

Very Short Essay (Any – 10)

3 X 10 = 30 Marks

11. Name the muscles of flexor compartment of forearm.
12. Microscopic structure of serous salivary gland.
13. Name the parts of long bone.
14. Mitosis.
15. Median cubital vein.
16. Name the type of neurons.
17. Draw neat labeled diagram of Muscular artery.
18. Movements possible at first carpo-metacarpal joint.
19. Type and articular surfaces of Hip joint.
20. Wrist drop.
21. Costo-diaphragmatic recess.

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[Time: 3 Hours]

[Max. Marks: 80]

I SEMESTER
PAPER – II (PHYSIOLOGY)
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. Describe intrinsic and extrinsic mechanisms of coagulation of blood. Add a note on anticoagulants

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Blood transfusion reactions
3. Erythropoiesis: Definition and Factors influencing it
4. Mechanism of secretion of hydrochloric acid in stomach
5. Composition and Functions of Bile
6. Lung Compliance: Definition, Diagram, Description and Significance
7. Lung Volumes and Capacities: Diagram, Definition and Normal values
8. Cardiac Output: Definition, Normal value and Factors influencing it
9. Neuro-Muscular Junction :Definition, Diagram and Description
10. Electron microscopic structure of cell membrane

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What is plasmapheresis? What is its significance?
12. Mention the role of following a) Lower Esophageal Sphincter b)Ileocecal valve
13. List the digestive enzymes that act on protein
14. List the non respiratory functions of lungs
15. Bohr's Effect: Definition and Significance
16. Draw a neat and labeled composite diagram of cardiac cycle
17. List the differences between Skeletal and Cardiac muscles
18. Draw a neat and labeled diagram of sarcomere
19. Define the following terms a)Action Potential b)Refractory period c)Starling's law of muscle
20. List the differences between Diffusion and Osmosis
21. Mention the functions of a) Golgi apparatus b) Lysosome c) Endoplasmic Reticulum

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[Max.Marks:80]

I SEMESTER
PAPER –III (BIOCHEMISTRY)
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. Write in detail about the RDA, sources, functions and deficiency manifestations of Vitamin A.
(1+1+4+4)

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Write about the criteria used for rejection of samples in the laboratory.
3. What are Isoenzymes? Mention clinical significance of isoenzymes of CPK and LDH
4. Watson - Crick Model of DNA structure.
5. Discuss the structural organization of proteins.
6. Glycogenesis and its significance.
7. Write an account of the various factors affecting enzyme activity.
8. Define lipids and give an account of their classification with one example for each group.
9. Biochemical functions and deficiency manifestations of vitamin C
10. Role of essential nutrients in the balanced diet.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Diagnostic markers of myocardial infarction.
12. Name the tests involved in the lipid profile and their normal ranges.
13. Write the normal ranges of serum calcium, phosphorus and iron.
14. Gout
15. Glucose tolerance test
16. Write a short note on colorimeter.
17. Categories of biological waste materials.
18. pH meter: Principle and applications
19. What are anticoagulants? Name any two anticoagulants with their uses in the Clinical laboratory.
20. Define RDA. What is RDA for Vitamin C and D.?
21. Uncouplers and inhibitors of oxidative phosphorylation

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BACHELOR OF PHYSIOTHERAPY**

[Time: 3 Hours]

[Max.Marks:80]

**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. Define force and explain in detail about force components with examples.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Enumerate synovial joint in detail.
3. Explain in brief about arthrokinematics and osteokinematics of elbow joint.
4. Discuss in detail about intervertebral disc and its function.
5. Explain in brief the bucket-handle and pump-handle movement of thorax.
6. Discuss the importance of anatomical pulleys.
7. Describe in brief about levers with example.
8. Explain the extensor mechanism of hand. Add a note on its function.
9. Scapulo-humeral rhythm.
10. Discuss the kinematics of Temporomandibular joint in brief.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Write the names of muscle proteins.
12. Cubitus varus and cubitus valgus
13. Define isotonic contraction.
14. Carrying angle.
15. Scoliosis
16. Muscles of inspiration and expiration.
17. Power grip
18. Typical vertebra.
19. Newton's third law
20. Name the muscle responsible for mastication
21. Hinge joint