

11/01/26
am
Jan-26

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 in detail the gross anatomy of the heart with a neat diagram.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Classify tissues. Write in detail about epithelial tissue.
3. Describe the structure of the growing long bone with a neat diagram.
4. Explain the structure of the shoulder joint with applied anatomy.
5. Write a note on the muscles of the front of arm.
6. Explain the gross anatomy of the lung and its functions.
7. Describe the boundaries and contents of carotid triangle.
8. Classify neurons and describe the structure of a typical neuron.
9. Write a short essay on the histology of the thin skin.
10. Explain the structure of the temporo-mandibular joint with applied anatomy

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define histology.
12. Name the types of cartilage with an example for each.
13. Name the carpal bones.
14. Mention the types of synovial joints with examples.
15. Name the branches of Axillary artery.
16. What is the mediastinum?
17. Name the arteries supplying the heart.
18. Name the lymphoid organs.
19. Draw a neat labelled diagram of cardiac muscle.
20. Name the branches of external carotid artery.
21. Enumerate the paranasal air sinuses.

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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. Explain the cardiac cycle with the help of a neat diagram.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Define homeostasis: Explain with suitable examples.
3. Describe the composition and functions of blood.
4. Explain ABO and Rh blood group systems.
5. Describe the structure and functions of the heart.
6. Write a note on the composition and functions of gastric juice.
7. Explain the mechanism of respiration.
8. Describe the structure and functions of skeletal muscle.
9. Write a note on the neuromuscular junction.
10. Explain the regulation of blood pressure.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define physiology.
12. What is meant by transport across cell membranes?
13. Mention the normal values of Hb concentration.
14. Name the different types of WBCs.
15. What is cardiac output? Give its normal value.
16. Define ECG. What are the waves of normal ECG?
17. Name the intestinal movements.
18. Define tidal volume and vital capacity.
19. Draw a neat labeled diagram of a neuron.
20. Define sarcomere.
21. What is anemia? Mention one cause.

06/01/2026
9:30 am to 12:30
Jan-26 Am

BLDE (DEEMED TO BE UNIVERSITY)
BACHELOR OF PHYSIOTHERAPY

[Time: 3 Hours]

[Max. Marks: 80]

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. Write an essay on vitamins: classification, sources, functions, and deficiency manifestations.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Describe the structure and functions of the cell membrane.
3. Explain the fluid mosaic model with a diagram.
4. Write notes on osmosis and active transport.
5. Explain the nature and classification of enzymes.
6. Write a note on enzyme inhibition with suitable examples.
7. Describe the biochemical functions and deficiency of Vitamin A.
8. Write a note on carbohydrates – definition and classification.
9. Explain the classification and importance of lipids.
10. Describe the structural organization of proteins.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define biochemistry.
12. Mention two functions of cell organelles.
13. What is facilitated diffusion?
14. Define coenzymes with one example.
15. Name any two water-soluble vitamins.
16. Write normal requirements of Vitamin D.
17. Give two examples of disaccharides.
18. Name two homopolysaccharides.
19. What is an essential amino acid? Give examples.
20. Define isoelectric pH.
21. What is denaturation of protein?

8/1/26
AM
Jay-26

BLDE (DEEMED TO BE UNIVERSITY)
BACHELOR OF PHYSIOTHERAPY

[Time: 3 Hours]

[Max. Marks: 80]

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. Discuss structure of ribcage in detail with kinetics & kinematics.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Add a note on rotator cuff muscles & their functions.
3. Power grips.
4. Add a note on temporo-mandibular joint kinematics.
5. Add a note on ranges of muscle work.
6. Define joint, mention types of joints & discuss hinge variety with example.
7. Discuss centre of mass & centre of gravity in human beings & its importance.
8. Add a note on cervical spine kinetics.
9. Discuss the radioulnar joint kinematics.
10. Define goniometer & discuss principles of goniometry.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Compressive forces.
 12. Define work & power with one example.
 13. Discuss cervical spine structure in short.
 14. Composition of forces
 15. Active insufficiency
 16. Mention types of goniometers.
 17. Describe second order of lever.
 18. Discuss in short wrist joint kinematics
 19. Types of muscle fibers.
 20. Functional position of wrist & hand.
 21. Types of muscle contraction.
- Handwritten signature and date: 8/1/26