

BLDE (DEEMED TO BE UNIVERSITY) JAN-2022
BACHELOR OF PHYSIOTHERAPY

[Time: 3 Hours]

[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. Enumerate the parts of the Digestive system and describe the stomach under the following heading: a) Location b) Parts c) Blood supply d) Applied anatomy.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Gluteus Maximus muscle
3. Name different lobes of the liver
4. Name the blood vessels supplying the rectum
5. Name any 4 hormones secreted by the pituitary gland
6. Draw and label the diagram of nephron
7. Pancreas
8. Microscopic structure of Large intestine
9. Contents of Femoral Triangle
10. Fallopian tube

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Branches of Superior mesenteric Artery
12. Microscopic structure of Testis
13. Supports of Uterus
14. Spermatic cord
15. Femur
16. Male urethra
17. Supra Renal gland
18. Gall Bladder
19. What is patella? Mention its importance
20. Name the Tarsal Bones
21. Portal Vein

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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. Classify joints describe synovial joint

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Ligaments of knee joint
3. Microanatomy of Hyaline cartilage
4. Deltoid muscle
5. Difference between right & left lung
6. Pericardium
7. Heart
8. Radius
9. Epiphysis
10. Diaphragm

Very Short Essay (Any – 10)

3 X 10 = 30 Marks

11. Suprapleural membrane
12. Sternal angle
13. Lithotomy position
14. ~~Anastomosis~~ Types of cartilages
15. Draw neat labelled diagram of histology of muscular artery
16. Synergists
17. Root of right lung
18. Name the tributaries of azygous vein
19. Plane of motion
20. Anastomosis
21. Intercostal muscles

BACHELOR OF PHYSIOTHERAPY

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[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. Define erythropoiesis. Describe characteristic features of stages of erythropoiesis. Add a note on its regulation.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Define and explain primary and secondary active transport processes across cell membrane.
3. What is hemostasis? Describe sequence of events involved in hemostasis.
4. Explain in detail about sequence of events at neuro muscular junction during transmission of a nerve impulse.
5. List out various properties of skeletal muscle. Explain any two of them in detail.
6. Describe mechanism of HCL secretion in stomach.
7. What are heart sounds? Give major differences between two main heart sounds.
8. Describe oxygen-dissociation curve with neat & labeled diagram.
9. Name respiratory centers. Describe neural regulation of respiration.
10. Define homeostasis. What are the differences between negative and positive feedback mechanisms?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Draw a neat & labeled a diagram of Strength duration curve
12. Define & mention the causes for the following a. Hemophilia b. Purpura
13. Define the following a. Karl Landsteiner's law b. E S R
14. Draw a neat & labeled diagram of Neuron
15. Draw a neat & labeled diagram of Cardiac pacemaker potential
16. Mention the sources and functions of the following a. CCK- PZ b. Secretin
17. Draw a neat & labeled diagram of Normal ECG in lead II
18. List the Movements of Small Intestine & mention their sites of occurrence
19. Define blood pressure. Give normal values of components of blood pressure.
20. Define & give normal values of the following a. Vital Capacity b. Residual Volume.
21. Define; draw a neat & labeled diagram of Sarcomere.

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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. Name the hormones of the anterior pituitary. Describe the actions of growth hormone. Applied aspects of growth hormone.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Define ovulation. Two tests to detect ovulation?
3. Enumerate the functions of middle ear
4. What are the Errors of refraction
5. Structure & functions of Juxta-glomerular apparatus
6. With a labeled diagram describe the origin, course and functions of pyramidal tract
7. Discuss the Tuning fork tests for hearing
8. Enumerate the Functions of CSF
9. Define Synapse. Enumerate its properties and explain any two properties.
10. Enumerate the Functions of Insulin

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define and give normal value of glomerular filtration rate (GFR)
12. Cretinism and its features
13. Enumerate the properties of receptors
14. What is Referred pain
15. Actions of parathyroid hormone
16. Differentiate between diabetes mellitus and diabetes insipidus
17. Enumerate the temperature-regulating Centers
18. Enumerate the hormones of the adrenal cortex
19. Functions of placenta
20. Draw a neat labeled diagram of taste pathway
21. Enumerate functions of Testosterone

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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. What is β -oxidation? Enumerate the steps of β -oxidation of palmitic acid with energetics.

[2+5+3]

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Gluconeogenesis
3. Hyperuricemia
4. Lipoproteins; Types and functions
5. Absorption, transport and storage of Iron
6. Mucopolysaccharides
7. Fate of Glycine
8. Deficiency manifestations of vitamin D
9. Structure of DNA
10. Structural organization of Proteins

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Essential fatty acids
12. Therapeutic applications of enzymes
13. Isoelectric pH
14. Oxidative phosphorylation
15. Significance of Biomedical waste management
16. Goiter
17. Factors affecting BMR
18. Protein Energy malnutrition
19. Glycosuria
20. Beriberi
21. Application of pH meter.

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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 is the normal pH of blood? Explain the role of plasma buffers and renal mechanisms in the maintenance of acid base balance of the body.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Structure and functions of cholesterol
3. Name the tumor markers with its clinical significance
4. Liver function tests
5. Describe the structure of DNA
6. Explain the structure, types and functions of Immunoglobulins
7. Electrophoresis – principle, normal pattern of serum proteins
8. Calcium homeostasis
9. Importance of serum enzyme estimation in myocardial infarction
10. Biomedical waste management

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Functions of copper
12. Name the purine and pyrimidine bases
13. HbA1C
14. Fluorosis
15. Glycosuria
16. A/G ratio
17. Functions of Lipoproteins
18. Atherosclerosis
19. ATP
20. Bence Jones protein
21. Name the serum electrolytes and give their normal reference range

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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. Explain the arthrokinematics of knee joint.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Describe thoraco - lumbar fascia.
3. Explain briefly plantar arches.
4. Write a note on screw home mechanism of knee joint.
5. Explain briefly about postural synergies.
6. Describe the kinematics of talocrural joint.
7. Add a note on variables of gait.
8. Explain about kinetics of posture.
9. Add a note on bursae of knee joint.
10. Write about the motion of pelvis at hip joint.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define static and dynamic posture.
12. Meniscus of knee.
13. Define angle of torsion of femur.
14. What is Coxa-vara and coxa-valga.
15. Note on ideal postural.
16. Three column stability of lumbar spine.
17. Windlass mechanism of foot.
18. Define open and close kinetic chain.
19. Lumbo-scracal angle.
20. Define gait, and name two phases of gait.
21. Define COG and LOG.

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I SEMESTER
PAPER – IV (KINESIOTHERAPY)
QP CODE: 8123

Your answer should be specific to the questions asked.
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Long Questions

10X1 = 10 Marks

1. Describe in detail about levers with example.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Enumerate various grips of hand in detail.
3. Explain in brief properties of connective tissue.
4. Explain the active and passive insufficiency.
5. Explain in brief the bucket-handle and pump-handle movement of thorax.
6. Discuss the importance of anatomical pulleys.
7. Explain in brief about the kinematics of cervical spine.
8. Discuss the kinematics of Temporomandibular joint in brief.
9. Write about axis and planes.
10. Explain in brief about kinematics of shoulder joint

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Rotator cuff muscles
12. Cubitus varus and cubitus valgus
13. Angle of Louis in thorax
14. Intervertebral disc
15. Ligaments of wrist
16. Muscle proteins
17. Palmar arch
18. Name the carpal bones.
19. Scoliosis
20. Angle of inclination in humerus
21. Define force