AHS. 01/07/2024

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 Shoulder joint under following headings-
   a) Type b) Articular surface c) Ligaments d) movements and muscles responsible for movements e) Applied aspects

Short Essays: (Any – 8) **5 X 8 = 40 Marks**

2. Lateral wall of nose
3. Mediastinum
4. Left coronary artery
5. Histology of Spleen
6. Right lung
7. Describe structure of neuron
8. Describe deltoid muscle
9. Tongue
10. Temporomandibular joint

Short Answers: (Any – 10) **3 X 10 = 30 Marks**

11. Name the branches of Brachial artery
12. Transitional epithelium
13. Name muscles of Larynx
14. Name the openings of diaphragm with structures passing through them
15. Histology of Cardiac muscle
16. Name the parts of long bone
17. Sesamoid bones
18. Boundaries of Posterior triangle
19. Name the muscles of arm
20. Supination of hand
21. Histology of Elastic cartilage

AHS 3/7/24

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[Time: 3 Hours] [Max. Marks: 80]

I SEMESTER
PAPER - II (Physiology - I)
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? With the help of neat & labeled diagrams, discuss various stages of erythropoiesis. Add a note on factors influencing it

Short Essays: (Any – 8) **5 X 8 = 40 Marks**

2. Discuss the intrinsic mechanism of coagulation
3. Neuromuscular junction: Diagram & Description of events associated with transmission of impulse across it
4. Short term regulation of blood pressure
5. Cardiac output: Definition, Normal value & factors influencing it
6. Conducting system of heart
7. Discuss the mechanism of secretion of hydrochloric acid in the stomach
8. Hemoglobin-Oxygen dissociation curve
9. Neural regulation of respiration
10. Lung surfactant-origin, composition and functions.

Short Answers: (Any – 10) **3 X 10 = 30 Marks**

11. List the mismatched blood transfusion reaction
12. List the functions of the following a)Endoplasmic reticulum b) Lysosome c) Golgi apparatus
13. Define & give examples for the following a)Diffusion b) Osmosis
14. Draw a neat & labeled diagram of sarcomere
15. Draw a neat & labeled diagram to depict a neuron
16. List the differences between 1st &2nd Heart Sounds
17. Draw a neat &labeled diagram of ECG
18. List the functions of saliva
19. List the properties of cardiac muscle
20. Draw a neat & labeled diagram to depict various lung volumes & capacities
21. Define & classify hypoxia with suitable examples

AHS. 5/7/24

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[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. Describe the chemistry, sources, RDA, biochemical functions and deficiency manifestations of Vitamin A.

Short Essays: (Any – 8) **5 X 8 = 40 Marks**

2. Describe briefly factors affecting the rate of enzyme catalyzed reaction.
3. Explain Fluid mosaic model of cell membrane.
4. Discuss the classification and functions of monosaccharides with examples.
5. Describe the , classification and functions of lipids.
6. Write sources, RDA and functions of any 2 water soluble vitamins.
7. Write about mechanism of enzyme action.
8. Classify amino acids based on structure, nutritional requirement and metabolic fate.
9. Explain Structural organization of proteins.
10. Structure and function of mitochondria.

Short Answers: (Any – 10) **3 X 10 = 30 Marks**

11. Essential Fatty acids
12. Reducing and non-reducing sugars
13. Functions of vitamin K
14. Zwitter ion and Isoelectric pH
15. Active site of enzyme
16. Active transport
17. Mention the vitamins deficiency in beri-beri and Pellagra
18. Rickets
19. Polysaccharides.
20. Biologically active peptides
21. Coenzyme and cofactors

July 2024

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. Define lever & discuss in detail classes of levers with suitable examples in human body.

Short Essays: (Any – 8) **5 X 8 = 40 Marks**

2. Add a note on length tension relationship & its importance in muscle function.
3. Discuss kinematics of supination & pronation.
4. Discuss shoulder joint kinematics.
5. Add a note on kinetics of Temporo-mandibular joint.
6. Add a note on cervical spine kinetics.
7. Classify muscles & mention functions of muscles.
8. Discuss elbow joint kinematics.
9. Add a note on hand functions.
10. Mention all & explain anyone palmar grips.

Short Answers: (Any – 10) **3 X 10 = 30 Marks**

11. Open and closed kinematic chain movements.
12. Define Elasticity.
13. Equilibrium & its types.
14. Define Force & mention it's types.
15. Scapulohumeral Rhythm
16. Angle of pull of muscles.
17. Define Stress & strain.
18. Young's modulus
19. Hook's law.
20. Anatomical pulleys with examples.
21. Pump handle movement.