

JAN-2022

BLDE (DEEMED TO BE UNIVERSITY)

M.Sc. Allied Health Sciences

[Time: 3 Hours]

[Max.Marks: 80]

I SEMESTER

PAPER – II (PHYSIOLOGY)

QP CODE: 9002

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X3 = 30 Marks

1. With a neat labeled diagram describe the sequence of events occurring at the neuromuscular junction during transmission of nerve impulse. Add a note on Myasthenia Gravis.
2. What is Erythropoiesis? Describe the stages and factors influencing it.
3. Discuss conducting system of heart. Explain the pathway of spread of cardiac impulse. Add a note on A-V nodal delay.

Short Essays:

5 X 10 = 50 Marks

4. Neuroglia
5. State the differences between passive and active transport processes
6. Describe the morphology and functions of neutrophils
7. Explain the hazards of mismatched blood transfusion
8. Discuss various lung volumes with clinical importance
9. Define cyanosis, types and clinical importance
10. Discuss anatomical and physiological dead space
11. Short term regulatory mechanism of arterial blood pressure
12. List the properties of cardiac muscle. Explain any two of them in detail
13. ECG: Definition, Diagram, and Description of its normal waves and intervals

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B.Sc. ALLIED HEALTH SCIENCES

[Time: 3 Hours]

[Max. Marks: 80]

I SEMESTER

PAPER – II (PHYSIOLOGY)

QP CODE: 8126,8131,8136,8141,8146,8151,8156,8161,8166,8171,8181

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Enumerate respiratory centers. Discuss neural regulation of respiration

Short Essays (Any – 8)

5 X 8 = 40 Marks

2. Oxygen transport in the blood
3. Passive transport mechanisms
4. Structure and functions of cell membrane
5. T lymphocyte
6. What is cross matching? Describe the hazards of mismatched blood transfusion
7. Classify fluid compartments of body with normal values
8. Long term regulation of blood pressure
9. Cardiac Output: Definition, Normal value and factors influencing it
10. Strength duration curve: Definition, Diagram and description

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Enumerate lung volumes and capacities. Give their normal values
12. What is plasmapheresis? Mention its significance
13. Enlist clotting factors
14. List the enzymes present in pancreatic juice
15. Mention the source and role of the following a) Gastrin b) Cholecystokinin-pancreozymin
16. List the types of intestinal movements
17. Compare cystic and hepatic bile
18. Draw a neat and labeled diagram depicting sarcomere
19. List the differences between 1st and 2nd heart sounds
20. Draw a neat and labeled diagram of ECG in Lead II
21. What is venous return? Enlist the factors influencing it

BLDE (DEEMED TO BE UNIVERSITY)
BACHELOR OF PHYSIOTHERAPY

JAN-2022

[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. 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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B.Sc. ALLIED HEALTH SCIENCES

[Time: 3 Hours]

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II SEMESTER

PAPER – II (HUMAN PHYSIOLOGY - II)

QP CODE: 8226,8231,8236,8241,8246,8251,8256,8261,8266,8271,8281

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Enlist hormones of Anterior Pituitary gland. Explain functions and regulation of growth hormone. Add a note on gigantism.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Define Oogenesis. Describe the steps of Oogenesis
3. Discuss errors of refraction.
4. What is CSF? Give its composition and distribution.
5. Explain juxta glomerular apparatus with neat labelled diagram.
6. Discuss functions of thyroid hormones
7. Discuss the Auditory Pathway.
8. Describe properties of Nerve fibers
9. Discuss the mechanism of heat balance in the body.
10. Discuss the role of hormones in the menstrual cycle.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Name the different parts of CNS
12. What is Blood brain barrier? Give its significance.
13. Define the following a. Tone b. Hypotonia c. Hypertonia
14. List the functions of Glucagon
15. Contraceptive methods for male
16. Add a note on Rickets
17. What are functions of external ear?
18. Enlist hormones secreted by Adrenal glands
19. Draw a neat and labeled diagram of Cystometrogram
20. What is GFR? Give its normal value.
21. Define the following a. Synaptic delay b. Summation c. Occlusion

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BACHELOR OF PHYSIOTHERAPY

[Time: 3 Hours]

[Max.Marks: 80]

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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BLDE (DEEMED TO BE UNIVERSITY)
M.Sc. Allied Health Sciences

[Time: 3 Hours]

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II SEMESTER
PAPER – II (MEDICAL PHYSIOLOGY)
QP CODE: 9007

Your answer should be specific to the questions asked.
Write Question No. in left side of margin.

Long Questions

10X3 = 30 Marks

1. Describe the mechanism of gastric HCl secretion. Describe the different phases of gastric juice secretion
2. Define and classify receptors. Enumerate the properties of receptors. Explain any two properties.
3. Define menstrual cycle. Describe the hormonal changes occurring during menstrual cycle.

Short Essays:

5 X 10 = 50 Marks

4. Composition and functions of pancreatic juice
5. Draw a neat labeled diagram of nephron. Differentiate between cortical and juxtamedullary nephrons
6. Actions of parathyroid hormone
7. Color vision and color blindness
8. Blood Brain Barrier (BBB)
9. Impedance matching
10. Defecation reflex
11. Spermatogenesis
12. Physiological actions of growth hormone
13. Artificial kidney

JAN-2022

BLDE (DEEMED TO BE UNIVERSITY)

M.Sc. IN MEDICAL COURSE – PRELIMINARY EXAMINATION

[Time: 3 Hours]

[Max.Marks: 80]

PAPER – II (PHYSIOLOGY)

QP CODE: 9002

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X3 = 30 Marks

1. Enumerate the various phases of gastric juice secretion. Describe cephalic phase. Add a note on gastric mucosal barrier.
2. Enumerate the anterior pituitary hormones. Discuss the functions and regulation of growth hormone. Add a note on Acromegaly
3. Define mean arterial pressure, pulse pressure. Explain the sinoaortic mechanism in regulation of blood pressure.

Short Essays:

5 X 10 = 50 Marks

4. Neuroglia
5. Mechanism of regulation of secretion of thyroxine
6. Spermatogenesis: Definition, Stages and Factors influencing it
7. Explain the hazards of mismatched blood transfusion
8. Discuss various lung volumes with clinical importance
9. Define cyanosis, types and clinical importance
10. Discuss anatomical and physiological dead space
11. Middle Ear: Contents and Functions
12. List the properties of cardiac muscle. Explain any two of them in detail
13. ECG: Definition, Diagram, and Description of its normal waves and intervals