BLDE (DEEMED TO BE UNIVERSITY) MBBS PHASE - I EXAMINATION

[Time: 3 Hours]

[Max.Marks: 100]

PHYSIOLOGY - PAPER - I QP CODE: 1003

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

Write Question No. in left side of margin.

Long Essay: (Answers to be started on fresh page only)

2x10=20

- 1. Describe the factors affecting cardiac output. Explain the methods used to measure cardiac output? What is the ejection fraction?
- 2. Describe the changes in lung volume, alveolar pressure, pleural pressure and transpulmonary pressure during normal breathing. Add a note on lung compliance

Short Essay: (Answers to be started on fresh page only)

10x5=50

- 3. Rh factor
- 4. Active transport mechanisms
- 5. Functions of bile
- 6. Phases of secretion of gastric juice
- 7. CO₂ transport in blood
- 8. Hypoxic Hypoxia
- 9. Solute and water transport in the Loop of Henle
- 10. Jugular venous pulse.
- 11. Cystometrogram
- 12. Nitrogen Narcosis

Short Answers: (Leave three lines gap between the answers)

10x3 = 30

- 13. Plasmapheresis
- 14. Anticoagulants.
- 15. Defecation reflex.
- 16. Mention the sources and functions of a) Gastrin b) Secretin c) CCK-PZ
- 17. Functional Residual Capacity.
- 18. VA/Q ratio
- 19. Peripheral Resistance
- 20. GFR: definition, normal value and factors influencing it
- 21. List the functions of a) Endoplasmic Reticulum b) Lysosome c) Golgi appartus
- 22. Diffusion

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MBBS PHASE - I EXAMINATION

[Time: 3 Hours]

[Max.Marks: 100]

PHYSIOLOGY - PAPER - II QP CODE: 1004

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

Write Question No. in left side of margin.

Long Essay: (Answers to be started on fresh page only)

2x10=20

- 1. Describe the steps in the biosynthesis and release of Thyroxine. Explain its functions and regulation. Add a note on effects of hyposecretion of thyroxine
- 2. Trace the pathways for different types of pain. What are the endogenous pain inhibiting pathways? Write a note on visceral pain.

Short Essay: (Answers to be started on fresh page only)

10x5=50

- 3. Functions of thalamus.
- 4. EEG
- 5. Photochemistry of vision. Functions of Growth hormone
- 6. Errors of refraction and their correction
- 7. Functions and regulation of secretion of insulin.
- 8. Ovulation.
- 9. Fetoplacental unit. properties of synapse.
- 10. Spermatogenesis
- 11. Parkinsonism.
- 12. E-C coupling in skeletal muscle

Short Answers: (Leave three lines gap between the answers)

10x3 = 30

- 13. Renshaw cell inhibition.
- 14. Difference between UMN and LMN lesions.
- 15. CSF and its functions.
- 16. List the functions of hypothalamus
- 17. Strength duration curve.
- 18. Functions of middle ear.
- 19. Milk ejection reflex.
- 20. Tetany
- 21. Myasthenia gravis
- 22. Permissive action of hormone

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BLDE (DEEMED TO BE UNIVERSITY) MBBS PHASE – I EXAMINATION

[Time: 3 Hours]

[Max. Marks: 80+20 (MCQ)]

PHYSIOLOGY - PAPER - I QP CODE: 1013 - CBME

Your answer should be specific to the questions asked. Draw neat labeled diagrams wherever necessary. Each answer should be written on new page only. Write question number in left side of margin

Long Essay: (Answer to be started on fresh page only)

 $2 \times 10 = 20$

1. Parents of 10 year old boy consults family physician with h/o of profuse bleeding after

His blood reports are-

- a. BT-3 mins b. CT-15 mins c. Platelet count-3.5 lakhs/cmm d. Hb-9 gms Detailed history revealed that his grandfather had same episode.
- a) Name the disorder (1)
- b) Discuss the cause of disorder and its features & management? (6+3)
- 2. Define blood pressure. With its normal values. Explain the short term regulation of blood pressure.(2+8)

Short Essay: (Answer to be started on fresh page only)

 $6 \times 5 = 30$

- 3. Discuss the role of Nephrons in regulation of Ionic content in Extra Cellular Fluid?
- 4. With a neat labeled diagram explain the interpleural & intrapulmonary pressure changes during different phases of respiration
- 5. Describe the functions of Plasma Proteins.
- 6. What is gastric emptying? Describe the factors regulating it.
- 7. Describe Pacemaker potential and its importance.
- 8. Describe & discuss the role of a physician in health care system.

Short Answer: (Leave three lines gap between the answers)

 $10 \times 3 = 30$

- 9. Explain the Extrinsic mechanism of coagulation.
- 10. Draw a neat labeled diagram of ECG. Mention the importance of ST segment.
- 11. Define a) FEV1 b) PEFR c) MVV. Give normal values of each.
- 12. Windkessel effect and its physiological significance
- 13. Gastrin- Mention source & its actions
- 14. Define a) Osmosis b) Diffusion. Give examples.
- 15. What is VO2 Max? What is its role in exercise?
- 16. What is filtration fraction? Give it's normal values
- 17. Enumerate the non-respiratory functions of lung
- 18. What is Apoptosis? What is its significance?

JAN-2022

BLDE (DEEMED TO BE UNIVERSITY) MBBS PHASE – I EXAMINATION

[Time: 3 Hours]

[Max. Marks: 80+20 (MCQ)]

PHYSIOLOGY - PAPER - II OP CODE: 1014 - CBME

Your answer should be specific to the questions asked. Draw neat labeled diagrams wherever necessary. Each answer should be written on new page only. Write question number in left side of margin

Long Essay: (Answer to be started on fresh page only)

 $2 \times 10 = 20$

1. Discuss the connections of cerebellum. Explain the various functions of cerebellum. Add a note on Cerebellar disorders.

(3+4+3)

- 2. The patient is a 30-year-old man who presented with a 7-year history of coarse facial features and progressive enlargement of hands and feet. There were no headaches, dizziness and blurring of vision.
 - a. What is the cause of this condition?
 - b. Discuss the physiological actions of the hormone involved.
 - c. List the conditions related to the abnormality of this hormone.

(2+5+3)

Short Essay: (Answer to be started on fresh page only)

 $6 \times 5 = 30$

- 3. Describe the molecular changes in Excitation contraction coupling of skeletal muscle.
- 4. Explain the role of Transcendental meditation in combating stress.
- Discuss various lesions of visual pathway.
- Define & classify Sleep. Add a note on EEG
- 7. Regulation and altered secretion of Thyroid hormone.
- 8. Describe and discuss mechanisms of body temperature regulation.

Short Answer: (Leave three lines gap between the answers)

 $10 \times 3 = 30$

- 9. What is Stretch reflex.
- 10. Long term memory & its importance.
- 11. Addison's Disease.
- 12. Enumerate functions of estrogen.
- 13. Tuning Fork tests for hearing.
- 14. Disorders of smell.
- 15. Sarcomere.
- 16. Properties of receptor.
- 17. Parasympathetic Nervous system.
- 18. Features of Parkinsonism.