Aug -2015

BLDE UNIVERSITY

MBBS PHASE - I EXAMINATION

[Time : 3 Hours] (REVISED SCHEME) [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 marks**

1. Name the various transport mechanisms across the cell membrane. Describe in detail active transport.
2. Describe the neural regulation of respiration. Add a note on Chyne Stokes Breathing.

Short Essay: (Answers to be started on fresh page only) **10x5=50 marks**

3. Total Body Fluid: Compartments and Normal values.
4. Functions of plasma proteins.
5. Conducting system of the heart.
6. ECG in Lead II.
7. Lung compliance.
8. Hypoxic Hypoxia : Definition, Features and Mode of treatment.
9. Renin Angiotensin Mechanism.
10. Composition and functions of saliva
11. Movements of small intestine.
12. Heart sounds

Short Answers: (Leave three lines gap between the answers) **10x3=30 marks**

13. Draw a neat and labeled diagram of electron microscopic structure of cell membrane.
14. Purpura.
15. Secretin.
16. Draw a neat and labeled diagram of respiratory membrane.
17. Asphyxia : Definition and stages.
18. Enumerate endocrine functions of kidneys.
19. List the differences between osmotic and pressure diuresis.
20. Landsteiner's Law.
21. 2nd stage of deglutition.
22. Law of Laplace.

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Long Essay: (Answers to be started on fresh page only) **2x10=20**

1. Name the different steps involved in hemostasis. Describe the mechanisms of coagulation and explain the actions of any two anticoagulants. (2+6+2)
2. Describe the chemical regulation of respiration. Add a note on Respiratory acidosis.

Short Essay: (Answers to be started on fresh page only) **10x5=50**

3. Caisson's disease.
4. Leukopoiesis
5. Conducting system of the heart
6. Short term regulation of blood pressure
7. Triple response
8. GFR
9. Innervation of the urinary bladder
10. Mechanism of sodium reabsorption in the nephron
11. Composition and functions of pancreatic juice
12. Movements of small intestine.

Short Answers: (Leave three lines gap between the answers) **10x3=30**

13. What is Gibbs – Donnan Equilibrium
14. Cellular immunity
15. Muscles of inspiration
16. Heart sounds
17. First degree heart block
18. Right atrial pressure changes
19. Regulation of salivary secretion
20. Transfusion reactions
21. Second state of deglutition
22. Mega colon

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MBBS PHASE - I EXAMINATION

[Time : 3 Hours] (REVISED SCHEME) [Max.Marks : 100]

PHYSIOLOGY – PAPER - II

QP CODE : 1004

Your answer should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.
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Write Question No. in left side of margin.

Long Essay: (Answers to be started on fresh page only) **2x10=20 marks**

1. Discuss the connections and functions of cerebellum. Add a note on features of cerebellar dysfunction. (6+4)
2. Name the various hormones that influence blood glucose level. Discuss the biosynthesis, mechanism of action, actions and regulation of secretion of insulin. Add a note on Diabetes mellitus. (1+6+3)

Short Essay: (Answers to be started on fresh page only) **10x5=50 marks**

3. CSF : Formation, Circulation, Drainage and functions.
4. Describe the effects of hemi section of spinal cord.
5. Discuss the travelling wave theory of pitch discrimination.
6. Organ of corti
7. Describe the pathway of gustation.
8. Hormonal regulation of menstrual cycle.
9. Functions of placenta
10. Describe the various events involved in transmission of nerve impulse across myoneural junction.
11. Cushing's syndrome.
12. Synthesis and Functions of thyroid hormones.

Short Answers: (Leave three lines gap between the answers) **10x3=30 marks**

13. Myasthenia gravis : Cause and Features
14. Acromegaly.
15. Tetany : Cause and Features.
16. List functions of middle ear.
17. Refractory period and its physiological role in skeletal and cardiac muscle.
18. Define the terms a) Chronaxie b)Rheobase c) Utilization time.
19. Fovea centralis.
20. List the features of Parkinsonism.
21. Renshaw cell inhibition.
22. List the functions of hypothalamus.

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PHYSIOLOGY – PAPER - II

QP CODE : 1004

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Write Question No. in left side of margin.

Long Essay: (Answers to be started on fresh page only) **2x10=20**

1. Describe the nucleus, connections and functions of Hypothalamus. (3+3+4)
2. What is normal serum calcium level? Explain homeostasis of serum calcium. (2+8)

Short Essay: (Answers to be started on fresh page only) **10x5=50**

3. Draw diagram of visual pathway. Add a note on its defects
4. Explain role of hormones in ovarian cycle
5. Cushing syndrome
6. Factors affecting spermatogenesis
7. Actions of Insulin.
8. Olfactory bulb.
9. Structure of muscle spindle
10. Brown sequard syndrome
11. Action potential
12. EEG

Short Answers: (Leave three lines gap between the answers) **10x3=30**

13. Pregnancy tests
14. Heat loss mechanism
15. Vasectomy
16. Myopia
17. Myasthenia gravis
18. Sarcomere
19. Retrograde amnesia
20. Thalamic syndrome
21. Tympanic reflex
22. Functions of Frontal lobe.