

APR-2015

BLDE UNIVERSITY
POST GRADUATE DEGREE EXAMINATION

[Time : 3 Hours]

[Max.Marks : 100]

MD PHYSIOLOGY – PAPER - I
QP CODE : 5005

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

(2x20=40 marks)

1. Define resting membrane potential and explain the molecular basis of its genesis and stabilization.
2. Explain in detail the physiology of body fluids and write about methods of its estimation.

Short essay (Three gaps between answers)

(6x10=60 marks)

3. Structure and function of cell membrane.
4. Gibbs – Donnan equilibrium
5. Comparative Physiology of excretory system.
6. Negative feedback mechanism with two suitable examples.
7. Measurement of blood volume.
8. Facilitated diffusion.

APY-2015

BLDE UNIVERSITY
POST GRADUATE DEGREE EXAMINATION

[Time : 3 Hours]

[Max.Marks : 100]

MD PHYSIOLOGY – PAPER - II

QP CODE : 5006

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

(2x20=40 marks)

1. Define Ventilation perfusion inequalities and physiological dead space and physiology shunt. Explain application of various gaseous laws in relation to ventilation and perfusion. Add a note on various types of abnormal breathing.
2. Define Blood Pressure. Explain the mechanism of short term and long term regulation of systemic Blood Pressure. Add a note on Goldblatt Hypertension.

Short essay (Three gaps between answers)

(6x10=60 marks)

3. Succus Entericus.
4. Splanchnic Circulation.
5. Dialysis.
6. Acidification of Urine.
7. Iron Deficiency Anaemia.
8. Explain the Mechanism of Hypersensitivity with examples.

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MD PHYSIOLOGY – PAPER - III

QP CODE : 5007

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

(2x20=40 marks)

1. Define excitation contraction coupling. Discuss in detail molecular biology of Muscle Contraction. Add a note on myasthenia gravis.
2. Write in detail the synthesis, secretion, regulation and functions of Thyroid hormones add a note on Grave's disease.

Short essay (Three gaps between answers)

(6x10=60 marks)

3. Describe neural circuitry of long term memory.
4. Brown –Sequards Syndrome.
5. C.T. SCAN
6. Define Synapse. Discuss its role in the signal transduction in the neural network.
7. Hormones of the Heart -Describe.
8. EEG (Electro Encephalogram)

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MD PHYSIOLOGY – PAPER - IV

QP CODE : 5008

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

(2x20=40 marks)

1. Describe the role of placenta in the physiology of pregnancy. Add a note on patho-physiology of premature birth.
2. What is neural audiogram? Describe the mechanisms for discrimination of pitch, intensity & direction of sound waves in human.

Short essay (Three gaps between answers)

(6x10=60 marks)

3. Prions.
4. Photochemistry of vision.
5. Evaluation of overweight by BMI.
6. Coronary angiography.
7. Stem cell therapy.
8. Physiological basis of oral contraceptives.