

APR-2013

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.

Long essay

(2x20=40 marks)

- Write in detail on carrier mediated transport mechanisms.
- Discuss the functions of G – Proteins.

Short essay

(10x6=60 marks)

- Explain the structure and functions of endoplasmic reticulum.
- Positive feed back mechanisms are called vicious cycles – Explain with suitable examples.
- Gibbs – Donnan equation.
- Transcription.
- Body fluid compartments. How is extra cellular fluid volume measured.
- Explain Starling's forces.

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[Time : 3 Hours]

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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.

Long essay

(2x20=40 marks)

1. Describe the mechanism of transport of oxygen with special reference to oxygen hemoglobin dissociation curve. Add a note on hypoxia.

Discuss the mechanism of hemostasis in detail. Add a note on bleeding disorders.

Short essay

(10x6=60 marks)

Entero-hepatic circulation.

Peristalsis.

Heart sounds.

Gastrointestinal hormones.

Counter-current multiplier system in Kidney.

Coronary circulation.

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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.

Long essay

(2x20=40 marks)

1. Discuss the biosynthesis, functions and regulation of secretion of adrenal medullary hormones. Add a note on pheochromocytoma.
2. Discuss the various components of nervous system which are absolutely essential for life.

Short essay

(10x6=60 marks)

1. 'Hypocalcemia induce hyperexcitability'- Discuss the physiological basis.
2. Describe neuroendocrine reflex with examples.
3. Describe sensory and motor homunculus.
4. Describe Circadian Rhythm.
5. Describe the energetic in skeletal muscle contraction.
6. Describe length tension relationship in skeletal muscle.

APY-2013

BLDE UNIVERSITY

POST GRADUATE DEGREE EXAMINATION

[Time : 3 Hours]

[Max.Marks : 100]

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.

Long essay

(2x20=40 marks)

1. Discuss physiological changes occurring in mother during pregnancy.
2. Write in detail on physiology of photoreceptors.

Short essay

(10x6=60 marks)

3. Write in detail on Blood-Testis-Barrier.
4. Discuss the transduction in olfactory receptors and write in detail olfactory pathways.
5. Nystagmus.
6. Hormone replacement therapy (HRT).
7. Explain the travelling wave theory of hearing.
8. Pathophysiology of fever.