

APY-2012

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)

1. Describe the role of mitochondria in health and diseases. Describe various tests used to assess the mitochondrial functions
2. Discuss the comparative physiology of water balance in different animals in the evolutionary link up to mammals

Short essay

(6X10=60 marks)

3. Nernst equation
4. Starling forces
5. A.S.Paintal
6. Facilitated diffusion
7. Apoptosis
8. Excitatory postsynaptic potential

AP 8-2012

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POST GRADUATE DEGREE EXAMINATION

[Time : 3 Hours]

[Max.Marks : 100]

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 neurophysiology of Vestibular apparatus. Write note on Nystagmus.
2. Discuss the factors affecting the development of tension in the skeletal muscle.

Short essay

(6X10=60 marks)

3. Learning & Memory
4. Speech & its disorders.
5. Pathophysiology of Diabetes Mellitus.
6. Discuss the connections and functions of thalamus. Add note on 'thalamic syndrome'.
7. Discuss the role of hormones in calcium homeostasis.
8. Explain in detail how various factors interact to regulate the growth of an individual from birth to death.

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[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 the role of Adenohypophysis in the control of gonadal activity.
2. Describe the gustatory receptors present in the taste buds. Describe the gustatory pathway.

Add a note on ageusia.

Short essay

(6X10=60 marks)

3. Describe the role of hypothalamus as a target for antifertility agents.
4. Draw a cross section of the spinal cord and label the prominent structures
5. Role of oxytocin in female reproduction
6. Hormones of Zona reticularis
7. Principles of Operant conditioning.
8. Yogic Pranayama (Breathing techniques)