

BLDE (DEEMED TO BE UNIVERSITY)  
POST GRADUATE DEGREE EXAMINATION

Library  
July-2023

[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. Discuss the regulation of total body water in health & disease.
2. Describe the active transport across the cell membrane & role of these mechanism in the management of disease conditions.

**Short Essay**

**(6X10=60 Marks)**

3. Growth factors.
4. Immunoglobulins and their clinical importance.
5. Compound action potential.
6. Von Bekesey.
7. Mitochondria.
8. Pathogenesis of oedema formation.

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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.

Write Question No. in left side of margin.

**Long Essay**

**(2X20=40 Marks)**

1. Discuss the neural regulation of respiration .Add a note on effects of transection at various levels of respiratory centres.
2. Describe the urine formation by the kidney in detail.

**Short Essay**

**(6X10=60 Marks)**

3. Micropuncture techniques.
4. Cardiopulmonary changes during exercise.
5. Natriuretic peptides.
6. Functional residual capacity.
7. Integrated response in haemorrhage.
8. Anticoagulant system in vivo.

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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. Describe the pathway carrying pain sensation with neat diagram. Add a note on Analgesic system.
2. Steps involved in synthesis of thyroid hormones. Explain physiological functions and its applied aspects.

**Short Essay**

**(6X10=60 Marks)**

3. Molecular mechanism of skeletal muscle contraction
4. Crossed extensor response.
5. Radioimmunoassay
6. Hyperglycemic hormones
7. Physiological basis for memory
8. Conditioned reflex

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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. Discuss the mechanism of hearing. Add a note on various tests of hearing and deafness.
2. Describe the role of free radicals in health and disease.

**Short Essay**

**(6x10=60 Marks)**

3. Critical fusion frequency
4. Explain endocrine functions of testes
5. Contraceptives in males
6. Write in brief about Accommodation reflex. Add a note on Argyll Robertson Pupil
7. Physiology of meditation
8. Explain various risk factors in developing obesity