

QP Code:

Reg.No.:.....

MD Degree Examinations in Physiology
(Model Question Paper)

**Paper I – General Physiology, Neuro Physiology, including Special Senses and
Endocrinology including Reproductive Physiology**

Time: 3 hrs

Max marks :100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay:

(20)

1. Explain the basis of maintenance of tone of the muscle and the mechanism involved in Jendrassik's maneuver.

Short essays:

(8X10=80)

2. Auditory function tests
3. Radioimmunoassay
4. Physiological actions of cortisol
5. Non insulin dependent diabetes mellitus
6. Hypothalamic obesity
7. Dopamine
8. Reticular formation
9. Visceral pain

QP Code:

Reg.No.:.....

MD Degree Examinations in Physiology
(Model Question Paper)

**Paper II – Systemic Physiology (Hematology, CVS, GIT, Respiratory System,
Renal Physiology)**

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay:

(20)

1. How urine is concentrated. Explain the role of kidney in acid base balance

Short essays:

(8X10=80)

2. Compliance of lung
3. End diastolic volume
4. Cytokines and their clinical relevance
5. Achalasia cardia
6. Voluntary control of respiration
7. Entero endocrine cells
8. Jugular venous pulse
9. Coronary circulation

QP Code:

Reg.No.:.....

MD Degree Examinations in Physiology

(Model Question Paper)

Paper III – Physiological Chemistry, Biophysics and Radiation Biology.

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay:

(20)

1. Discuss the physiological processes involved in aging

Short essays:

(8X10=80)

2. Microwave therapy
3. End plate potential
4. Nernst equation
5. Polymerase chain reaction
6. Hazards of radiation
7. Aquaporins
8. Hydrocephalus
9. G Proteins

QP Code:

Reg.No.:.....

MD Degree Examinations in Physiology

(Model Question Paper)

Paper IV – Applied Physiology including Recent Advances

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay:

(20)

1. Explain goitre and thyroid function tests in detail

Short essays:

(8X10=80)

2. Heart block
3. Acute myeloid leukaemia
4. Colour blindness and tests to assess it
5. Blood brain barrier
6. Conn's syndrome
7. Atherosclerosis
8. Diarrhoea
9. Epilepsy and EEG findings
