

QP Code:

Reg.No.:.....

**Final M.Sc Medical Physiology Degree Examinations
(Model Question Paper)**

Paper I – General Physiology, Haematology , Cardio vascular system.

Time: 3 hrs

Max marks :100

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

Essay:

(20)

1. Discuss the modern concept of molecular properties of cell membrane correlating its structure and function.

Short essays:

(8X10=80)

2. Processes involved in aging
3. Blood Transfusion
4. Cardiac changes during exercise.
5. Correlate the events of cardiac cycle.
6. Coronary circulation .
7. Functions of plasma proteins.
8. End diastolic volume.
9. T-Lymphocytes.

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Paper II – physiology of Respiration, Renal Physiology, Skin and temperature regulation, Principles of Bio- Physics as applied to 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. Heat balance.
4. Hyperbaric oxygen therapy.
5. Voluntary control of respiration.
6. Renal Handling of glucose.
7. Nernst equation.
8. Hypoxia.
9. End plate potential.

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Paper III – Nervous system, Special senses, Muscle and Nerve 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. Reticular formation
4. Visceral pain
5. Epilepsy and EEG findings.
6. Myasthenia gravis.
7. Visual-Pathway and effect of lesions.
8. Theories of sleep.
9. Action potential.

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Paper IV – GIT, Endocrinology, Reproductive Physiology, recent advances in physiology.

Time: 3 hrs

Max marks :100

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

Essay:

(20)

1. Define growth. Explain in detail influence of various hormones on growth.

Short essays:

(8X10=80)

2. Peptic ulcer.
3. Uterine cycle.
4. Dwarfism.
5. Entero endocrine cells.
6. Achalasia cardia.
7. Thyroid function tests.
8. Contraceptive methods.
9. Hyper and Hypoglycemic coma.
