

PAPER CODE: 1160

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
WARANGAL, TELANGANA STATE – 506 002**

M.D/ M.S DEGREE SUPPLEMENTARY EXAMINATIONS: MAY,2025

**PHYSIOLOGY
PAPER – I
(GENERAL PHYSIOLOGY & RECENT ADVANCES INCLUDING NERVE, MUSCLE
PHYSIOLOGY)**

Time: 3 Hours

Max Marks: 100

Note: Answer all questions

Give Diagrammatic representation wherever necessary

Write a short essay on the following:

10 X 10 = 100

1. Discuss the development of resting membrane potential in detail.
2. Explain about various transport mechanism across cell membrane.
3. Define Homeostasis and explain various feedback mechanism to maintain homeostasis.
4. Write about the composition of extracellular fluid compartment and intracellular fluid compartment and discuss the pathophysiology of oedema.
5. Describe the functional morphology of skeletal muscle fibre and molecular basis of its contraction.
6. Describe Ageing from the point of view of cellular and molecular mechanisms that underlie it.
7. Describe about the length-strength relation in skeletal muscular contraction and its application in exercise physiology.
8. Explain the morphology and functions of muscle spindle.
9. Write about neuromuscular transmitters and the neuromuscular blockers.
10. Write in detail about various types of Synapse and their properties.
