

Q.P. Code: 303379

Reg. No:.....

**Final Year M.Sc Medical Physiology Degree Examinations
September 2018**

Nervous System, Special Senses, Muscle and Nerve Physiology

Time: 3 hrs

Max. Marks: 100

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

Essay: (20)

1. Describe the origin, course, termination and functions of cortico spinal tract. Add a note on motor homunculus.

Short Essays: (8x10=80)

2. Explain the structural organization, major connections and functions of limbic system.
3. Describe the formation, circulation, composition and functions of cerebrospinal fluid.
4. Describe the pathway and changes taking place during accommodation reflex.
5. Draw, label and explain auditory pathway. Add a note on lesion of auditory pathway.
6. Draw a sarcomere. Explain the molecular mechanism of contraction of skeletal muscle.
7. Describe the ionic basis for resting membrane potential and action potential. Add a note on factors effecting velocity of conduction of impulses in a nerve fibre.
8. Mention the types of nerve injuries. Describe Wallerian degeneration. Add a note on regeneration of injured nerve fiber.
9. Describe the structure of taste buds and explain taste pathway.
