

Q.P. Code: 303379

Reg. No:.....

**Third Year M.Sc Medical Physiology Degree Regular/Supplementary
Examinations August 2022**

Nervous System, Special Senses, Muscle and Nerve Physiology

Time: 3 hrs

Max. Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay:

(20)

1. With the help of a diagram, explain the origin, course and termination of pyramidal tract. List the differences between Upper motor neuron lesion and Lower motor neuron lesion.

Short Essays:

(8x10=80)

2. Describe the theories of hearing. Add a note on deafness-types and causes.
3. Describe the mechanisms of Referred pain and give examples.
4. Explain the molecular mechanism of skeletal muscle contraction.
5. Explain the major connections of basal ganglia.
6. Explain the Action potential of neuron- phases and its ionic basis.
7. Enumerate the types of nerve injuries. Explain the changes in Wallerian degeneration.
8. Describe the formation, composition, circulation and functions of Cerebrospinal fluid.
9. Explain the photochemistry of vision.
