

[LI 123]

APRIL 2016

Sub. Code: 2020

M.D. DEGREE EXAMINATION

BRANCH V – PHYSIOLOGY

PAPER III – NERVOUS SYSTEM AND SPECIAL SENSES

Q.P. Code :202020

Time : Three Hours

Maximum : 100 Marks

I. Essay:

(2 x 10 = 20)

1. Describe the mechanism of hearing. What is presbycusis?
2. Write an essay on modulation of pain perception.

II. Short Questions:

(8 x 5 = 40)

1. Properties of reflexes.
2. Generator potential.
3. Composition and functions of Cerebrospinal fluid (CSF).
4. Neocerebellum and its connections.
5. Sensory homunculus with a diagram and label it.
6. Craniosacral autonomic outflow.
7. Peculiarities of olfactory pathway.
8. Short term memory.

III. Reasoning Out:

(4 x 5 = 20)

1. Informations are coded in the sensory nerves. Justify.
2. Clonus in upper motor neuron lesion.
3. Hippocampal lesion causes anterograde amnesia.
4. L-Dopa alone is used in the treatment of Parkinsonism. Why?

IV. Very Short Questions:

(10 x 2 = 20)

1. Circumventricular organs.
2. Cortical plasticity.
3. Renshaw cell.
4. Neurotrophins.
5. Parosmia.
6. Intentional tremors.
7. Cochlear potentials.
8. Phasic receptors.
9. Nissl bodies.
10. Effect of tetanus toxin and botulinum toxin.
