

[LL 123]

OCTOBER 2017

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. Write an essay on the organisation of Neural elements of Retina and Trace the Visual pathway.
2. Describe in detail, the connections and functions of Vestibular Apparatus. Add a note on Tests for Vestibular Function.

II. Short Questions:

(8 x 5 = 40)

1. Synaptic Plasticity.
2. Motor Homunculus.
3. Inverse Stretch Reflex.
4. Role of Limbic system in Reward and Punishment.
5. Pathophysiology and clinical features of Parkinsonism.
6. Brown Sequard Syndrome.
7. Categorical and Representational Cerebral hemisphere.
8. Waveforms of Electroencephalography and their physiological basis in a healthy person.

III. Reasoning Out:

(4 x 5 = 20)

1. Give reason for the type of tremor in Cerebellar disease.
2. The accommodative power of the eye can never compensate for Astigmatism. Why?
3. Jet Lag.
4. Give reason for the Spinal Shock following spinal cord transection.

IV. Very Short Questions:

(10 x 2 = 20)

1. What are Neuromodulators?
2. Evoked Potential.
3. Prosopagnosia.
4. Horner's Syndrome.
5. Hyperalgesia and Allodynia.
6. Weber – Fechner Law.
7. Attenuation Reflex.
8. Circadian Rhythm Entrainment.
9. What is Taste threshold? Who are Supertasters?
10. Impedance matching.
