

[LE 123]

APRIL 2014

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:

(2X10=20)

1. Name the ascending tracts. Describe the origin, course, termination and sensation carried by tract of Goll and Burdach.
2. What are the postural reflexes that can be studied in a midbrain animal?

II. Short Questions:

(8X5=40)

1. Long-Term potentiation.
2. Doctrine of specific nerve energies.
3. Theories of color vision.
4. Taste pathway.
5. Pheromones.
6. Alpha Block in EEG.
7. Cortical motor areas.
8. Papez circuit.

II. Reasoning Out:

(4X5=20)

1. What is the reason for habituation?
2. Explain the physiological basis for pain in phantom limb.
3. Reason out the physiology in masking.
4. Explain the physiological basis for dissociated anaesthesia in syringomyelia.

IV. Very Short Questions:

(10X2=20)

1. What is law of projection?
2. What is nodal point?
3. What is prosopagnosia?
4. What is implicit memory?
5. What is déjà vu phenomenon?
6. What is anomia?
7. Which cortical area is called 'suppressor strip'? What is its function?
8. Name the cerebellar deep nuclei.
9. Name the neurotransmitters concerned with sleep.
10. What is 'Engram'?
