

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 Questions:

(2 x 15 = 30)

1. Discuss the physiology of pain. Add a note on visceral Pain.
2. Describe the mechanisms involved in short term and long term memory. Add a note on Alzheimer's disease.

II. Short notes:

(10 x 5 = 50)

1. Role of hippocampus in learning.
2. Photochemistry of vision.
3. Theories of hearing.
4. Cortical plasticity.
5. Withdrawal reflex.
6. Connections of cerebellum.
7. Cochlear implants.
8. Physiology of language.
9. Olfactory pathway.
10. Receptor potential.

III. Reasoning Out:

(4 x 5 = 20)

1. Dysfunction of sixth cranial nerve in cerebral oedema.
2. Habituation and sensitization are related to release of Neurotransmitter at synapse.
3. Accommodation preserved in Argyll Robertson pupil.
4. Post micturition syncope.
