

[LS 123]

NOVEMBER 2020
(OCTOBER 2020 SESSION)

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 Questions:

(2 x 15 = 30)

1. Discuss the mechanism concerned with maintenance of equilibrium. Add a note on motion sickness. (8+7=15)
2. Describe the various neurological mechanisms responsible for perception of colour vision 15 marks

II. Short notes:

(10 x 5 = 50)

1. Babinsky's sign
2. Discuss the clinical applications of evoked potential
3. Discuss the formation, flow and absorption of Cerebrospinal fluid
4. Impedence matching in middle ear
5. Discuss the lesions at different levels of visual pathway
6. What is Renshaw cell inhibition and its significance
7. Organ of Cortii.
8. Discuss the different types of brain waves that are present in a normal electroencephalogram
9. Auditory pathway and its disorders
10. Papez circuits and their clinical significances

III. Reasoning Out:

(4 x 5 = 20)

1. List the features of Parkinsonism. Explain the physiological basis of the drugs used in its treatment.
2. Explain the hyperphagia in Diabetes mellitus stressing the role of hypothalamus
3. Bilateral removal of hippocampus produces anterograde amnesia, Explain.
4. Deep anaesthesia is usually required for intra abdominal operation. Explain with physiological basis.
